

TDMS No. 20304 - 01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
TEF evaluation (PCB 118)
CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
Time Report Requested: 12:05:16
First Dose M/F: NA / 03/26/04
Lab: BAT

F1_R8

C Number: C20304

Lock Date: 10/12/2006

Cage Range: ALL

Date Range: ALL

Reasons For Removal: 25022 ACCK 25021 TSAC 25020 NATD
25019 MSAC 25018 DACC

Removal Date Range: ALL

Treatment Groups: Include 001 0 UG/KG Include 004 100 UG/KG Include 005 220 UG/KG
Include 006 460 UG/KG Include 007 1000 UG/KG Include 008 4600 UG/KG
Include 009 4600 UG/KG STOP

Study Gender: Female

TDMSE Version: 2.0.0

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	7	6	7	6	6	5	7	7	6	7	3	6	7	6	2	6	5	7	7	5	7	7	7	4
	1	3	5	3	5	6	1	3	3	9	3	2	6	3	5	9	2	7	3	3	0	3	0	3	9
	9	3	8	5	1	9	6	4	3	2	3	0	2	3	2	1	4	5	3	4	3	5	1	5	5
SPRAGUE-DAWLEY RATS FEMALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0 UG/KG	0	0	0	0	0	1	1	1	1	1	1	1	2	2	2	2	3	3	3	3	3	4	4	4	4
	1	6	7	8	9	0	1	2	3	4	5	6	6	7	8	9	0	6	7	8	9	0	1	2	3

females (cont...)

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymphoma Malignant	X																								
Schwannoma Malignant, Metastatic, Uterus							X																		
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymphoma Malignant	X																								
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymphoma Malignant	X																								
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cholangioma																									
Histiocytic Sarcoma												X													

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
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DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	7	6	7	6	6	5	7	7	6	7	3	6	7	6	2	6	5	7	7	5	7	7	7	4
	1	3	5	3	5	6	1	3	3	9	3	2	6	3	5	9	2	7	3	3	0	3	0	3	9
	9	3	8	5	1	9	6	4	3	2	3	0	2	3	2	1	4	5	3	4	3	5	1	5	5

SPRAGUE-DAWLEY RATS
FEMALE
0 UG/KG

ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	1	1	1	1	1	1	1	2	2	2	2	3	3	3	3	3	4	4	4	4
	1	6	7	8	9	0	1	2	3	4	5	6	6	7	8	9	0	6	7	8	9	0	1	2	3

females
(cont...)

Lymphoma Malignant	X																								
Schwannoma Malignant, Metastatic, Uterus						X																			
Mesentery	+																								
Oral Mucosa	+																								
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymphoma Malignant	X																								
Schwannoma Malignant, Metastatic, Uterus						X																			
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Tooth	+	+		+			+			+							+	+		+					
Odontoma																									

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
--------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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DAY ON TEST	Animals																								
	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02	1	7	6	7	6	6	5	7	7	6	7	3	6	7	6	2	6	5	7	7	5	7	7	4	
03	1	3	5	3	5	6	1	3	3	9	3	2	6	3	5	9	2	7	3	3	0	3	0	9	
09	9	3	8	5	1	9	6	4	3	2	3	0	2	3	2	1	4	5	3	4	3	5	1	5	
SPRAGUE-DAWLEY RATS FEMALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	1	1	1	1	1	1	1	2	2	2	2	3	3	3	3	3	4	4	4	4
0 UG/KG	1	6	7	8	9	0	1	2	3	4	5	6	6	7	8	9	0	6	7	8	9	0	1	2	3
Lymphoma Malignant	X																								
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymphoma Malignant	X																								

**females
(cont...)**

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenoma			X																					
Carcinoma								X																
Carcinoma, Metastatic, Thyroid Gland																				X				
Lymphoma Malignant	X																							
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pheochromocytoma Benign																X								
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parathyroid Gland	+	+	+	+	+	+	+	+	+	M	+	+	+	+	M	+	+	+	M	+	+	+	M	+
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymphoma Malignant	X																							
Pars Distalis, Adenoma		X	X	X			X	X		X			X			X			X		X			
Pars Distalis, Adenoma, Multiple																								

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	7	6	7	6	6	5	7	7	6	7	3	6	7	6	2	6	5	7	7	5	7	7	4
	1	3	5	3	5	6	1	3	3	9	3	2	6	3	5	9	2	7	3	3	0	3	0	3
	9	3	8	5	1	9	6	4	3	2	3	0	2	3	2	1	4	5	3	4	3	5	1	5
SPRAGUE-DAWLEY RATS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FEMALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0 UG/KG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	1	1	1	1	1	1	1	2	2	2	3	3	3	3	3	4	4	4	4
	1	6	7	8	9	0	1	2	3	4	5	6	6	7	8	9	0	6	7	8	9	0	1	2

females
(cont...)

Pars Distalis, Carcinoma

Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+
C-cell, Adenoma				X															X			X	X	
C-cell, Carcinoma																					X			
Follicular Cell, Adenoma																				X				

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lymphoma Malignant	X																							
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Histiocytic Sarcoma											X													
Luteoma																								X
Lymphoma Malignant	X																							
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Carcinoma																					X			
Polyp Stromal										X								X						

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DAY ON TEST	0																							
	1	7	6	7	6	6	5	7	7	6	7	3	6	7	6	2	6	5	7	7	5	7	7	4
1	3	5	3	5	6	1	3	3	9	3	2	6	3	5	9	2	7	3	3	0	3	0	3	9
9	3	8	5	1	9	6	4	3	2	3	0	2	3	2	1	4	5	3	4	3	5	1	5	5

ANIMAL ID	0																								females (cont...)
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	1	1	1	1	1	1	1	2	2	2	2	3	3	3	3	3	4	4	4	4	
1	6	7	8	9	0	1	2	3	4	5	6	6	7	8	9	0	6	7	8	9	0	1	2	3	

Schwannoma Malignant

X

Vagina

+

+

Polyp, Multiple

X

Squamous Cell Carcinoma

HEMATOPOIETIC SYSTEM

Bone Marrow

+ +

Histiocytic Sarcoma

X

Lymphoma Malignant

X

Lymph Node, Mandibular

+ + + + + + + + + + + + + + + M + + + + + + + + +

Histiocytic Sarcoma

X

Lymphoma Malignant

X

X

Lymph Node, Mesenteric

+ +

Histiocytic Sarcoma

X

Lymphoma Malignant

X

Spleen

+ +

Lymphoma Malignant

X

Thymus

+ + + + + + + + + + + + + + + M + + + + + + + + +

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| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | 7 | 6 | 7 | 6 | 6 | 5 | 7 | 7 | 6 | 7 | 3 | 6 | 7 | 6 | 2 | 6 | 5 | 7 | 7 | 5 | 7 | 7 | 4 |
| | 1 | 3 | 5 | 3 | 5 | 6 | 1 | 3 | 3 | 9 | 3 | 2 | 6 | 3 | 5 | 9 | 2 | 7 | 3 | 3 | 0 | 3 | 0 | 9 |
| | 9 | 3 | 8 | 5 | 1 | 9 | 6 | 4 | 3 | 2 | 3 | 0 | 2 | 3 | 2 | 1 | 4 | 5 | 3 | 4 | 3 | 5 | 1 | 5 |

| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 |
| | 1 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | 1 | 2 |

SPRAGUE-DAWLEY RATS FEMALE
0 UG/KG

females (cont...)

Lymphoma Malignant X

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | |
| Fibroadenoma | | X | | | | | | | | X | X | X | X | | | X | | X | | | | | X |
| Fibroadenoma, Multiple | | | X | | | | X | X | X | | | | | | X | | X | | | | | | |
| Histiocytic Sarcoma | | | | | | | | | | X | | | | | | | | | | | | | |
| Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibroma | | | | | X | | | | | | | | | | | | | | | | | | |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | |
| Keratoacanthoma | | | | | | | | | | | | | | | | | | | | | | | |
| Schwannoma Malignant | | | | | | | | | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Schwannoma Malignant, Metastatic, Uterus | | | | | | X | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

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| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 7 | 6 | 7 | 6 | 6 | 5 | 7 | 7 | 6 | 7 | 3 | 6 | 7 | 6 | 2 | 6 | 5 | 7 | 7 | 5 | 7 | 7 | 4 |
| | 1 | 3 | 5 | 3 | 5 | 6 | 1 | 3 | 3 | 9 | 3 | 2 | 6 | 3 | 5 | 9 | 2 | 7 | 3 | 3 | 0 | 3 | 0 | 9 |
| | 9 | 3 | 8 | 5 | 1 | 9 | 6 | 4 | 3 | 2 | 3 | 0 | 2 | 3 | 2 | 1 | 4 | 5 | 3 | 4 | 3 | 5 | 1 | 5 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 |
| | 1 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | 1 | 2 |
| | | | | | | | | | | | | | | | | | | | | | | | | |

SPRAGUE-DAWLEY RATS
 FEMALE
 0 UG/KG

females
(cont...)

NERVOUS SYSTEM

| | |
|--|---|
| Brain | + |
| Carcinoma, Metastatic, Pituitary Gland | |
| Lymphoma Malignant | X |

RESPIRATORY SYSTEM

| | |
|--------------------------------------|---|
| Lung | + + + + + + + + + + + + + + + + M + + + + + + + + + + |
| Carcinoma, Metastatic, Thyroid Gland | |
| Histiocytic Sarcoma | X |
| Lymphoma Malignant | X |

| | |
|--------------------|---|
| Nose | + |
| Lymphoma Malignant | X |

| | |
|--------------------|---|
| Trachea | + + + + + + + + + + + + + + + + M + + + + + + + + + + |
| Lymphoma Malignant | X |

SPECIAL SENSES SYSTEM

| | |
|--------------------|---|
| Eye | + |
| Lymphoma Malignant | X |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | 7 | 6 | 7 | 6 | 6 | 5 | 7 | 7 | 6 | 7 | 3 | 6 | 7 | 6 | 2 | 6 | 5 | 7 | 7 | 5 | 7 | 7 | 7 | 4 |
| | 1 | 3 | 5 | 3 | 5 | 6 | 1 | 3 | 3 | 9 | 3 | 2 | 6 | 3 | 5 | 9 | 2 | 7 | 3 | 3 | 0 | 3 | 0 | 3 | 9 |
| | 9 | 3 | 8 | 5 | 1 | 9 | 6 | 4 | 3 | 2 | 3 | 0 | 2 | 3 | 2 | 1 | 4 | 5 | 3 | 4 | 3 | 5 | 1 | 5 | 5 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| SPRAGUE-DAWLEY RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 UG/KG | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | |
| | 1 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 |

females (cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Histiocytic Sarcoma | | | | | | | | | | | | | X | | | | | | | | | | | |
| Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

SYSTEMIC LESIONS

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Histiocytic Sarcoma | | | | | | | | | | | | | X | | | | | | | | | | | |
| Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | | X | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
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 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
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 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|----------------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 4 | 7 | 4 | 3 | 5 | 6 | 7 | 7 | 5 | 5 | 7 | 7 | 7 | 4 | 7 | 5 | 6 | 5 | 5 | 7 | 5 | 7 | 7 | 4 | |
| | | 9 | 3 | 4 | 7 | 0 | 1 | 3 | 3 | 6 | 1 | 3 | 3 | 3 | 4 | 3 | 6 | 5 | 0 | 7 | 3 | 9 | 3 | 3 | 4 | |
| | | 5 | 5 | 3 | 8 | 3 | 7 | 3 | 5 | 1 | 6 | 4 | 5 | 3 | 0 | 4 | 1 | 8 | 3 | 5 | 5 | 3 | 3 | 3 | 6 | |
| SPRAGUE-DAWLEY RATS | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| FEMALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 UG/KG | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | ANIMAL ID | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | |
| | | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 |

females
(cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |
| Schwannoma Malignant, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cholangioma | | | | | | | | | | | | | | | | | | | | | | | | X |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 4 | 7 | 4 | 3 | 5 | 6 | 7 | 7 | 5 | 5 | 7 | 7 | 7 | 4 | 7 | 5 | 6 | 5 | 5 | 7 | 5 | 7 | 7 | 7 | 4 | | |
| | 9 | 3 | 4 | 7 | 0 | 1 | 3 | 3 | 6 | 1 | 3 | 3 | 3 | 4 | 3 | 6 | 5 | 0 | 7 | 3 | 9 | 3 | 3 | 3 | 4 | | |
| | 5 | 5 | 3 | 8 | 3 | 7 | 3 | 5 | 1 | 6 | 4 | 5 | 3 | 0 | 4 | 1 | 8 | 3 | 5 | 5 | 3 | 3 | 3 | 3 | 6 | | |
| SPRAGUE-DAWLEY RATS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 UG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 8 | |
| | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | | |

females
(cont...)

Lymphoma Malignant
 Schwannoma Malignant, Metastatic,
 Uterus

Mesentery

+

Oral Mucosa

Pancreas

+ +

Lymphoma Malignant
 Schwannoma Malignant, Metastatic,
 Uterus

Salivary Glands

+ +

Stomach, Forestomach

+ +

Stomach, Glandular

+ +

Tooth
 Odontoma

+
 X

+

CARDIOVASCULAR SYSTEM

Blood Vessel

+ +

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
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 CAS Number: 31508-00-6

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 First Dose M/F: NA / 03/26/04
 Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 4 | 7 | 4 | 3 | 5 | 6 | 7 | 7 | 5 | 5 | 7 | 7 | 7 | 4 | 7 | 5 | 6 | 5 | 5 | 7 | 5 | 7 | 7 | 7 | 4 |
| | | 9 | 3 | 4 | 7 | 0 | 1 | 3 | 3 | 6 | 1 | 3 | 3 | 3 | 4 | 3 | 6 | 5 | 0 | 7 | 3 | 9 | 3 | 3 | 3 | 4 |
| | | 5 | 5 | 3 | 8 | 3 | 7 | 3 | 5 | 1 | 6 | 4 | 5 | 3 | 0 | 4 | 1 | 8 | 3 | 5 | 5 | 3 | 3 | 3 | 3 | 6 |
| SPRAGUE-DAWLEY RATS | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FEMALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 UG/KG | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 |
| | | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 |

females (cont...)

Lymphoma Malignant

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma, Metastatic, Thyroid Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pheochromocytoma Benign | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Adenoma | | | X | | | | | X | X | | | | | X | X | | | | | X | | | | | X | | |
| Pars Distalis, Adenoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | | | X |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
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Date Report Requested: 06/26/2008
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 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 4 | 7 | 4 | 3 | 5 | 6 | 7 | 7 | 5 | 5 | 7 | 7 | 7 | 4 | 7 | 5 | 6 | 5 | 5 | 7 | 5 | 7 | 7 | 7 |

| ANIMAL ID | 0 | | | | | | | | | | | | | | | | | | | | | | | |
|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 |

SPRAGUE-DAWLEY RATS FEMALE females (cont...)
0 UG/KG

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Pars Distalis, Carcinoma | X | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | + | | | | | | | | | | | | | | | | | | | | | | | |
| C-cell, Adenoma | X | | | | | | | | | | | | | | | | | | | | | | | |
| C-cell, Carcinoma | X | | | | | | | | | | | | | | | | | | | | | | | |
| Follicular Cell, Adenoma | X | | | | | | | | | | | | | | | | | | | | | | | |

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Clitoral Gland | + | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | + | | | | | | | | | | | | | | | | | | | | | | | |
| Ovary | + | | | | | | | | | | | | | | | | | | | | | | | |
| Histiocytic Sarcoma | + | | | | | | | | | | | | | | | | | | | | | | | |
| Luteoma | + | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | + | | | | | | | | | | | | | | | | | | | | | | | |
| Uterus | + | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma | X | | | | | | | | | | | | | | | | | | | | | | | |
| Polyp Stromal | X | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

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 Lab: BAT

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 4 | 7 | 4 | 3 | 5 | 6 | 7 | 7 | 5 | 5 | 7 | 7 | 7 | 4 | 7 | 5 | 6 | 5 | 5 | 7 | 5 | 7 | 7 | 7 |
| ANIMAL ID | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 |
| SPRAGUE-DAWLEY RATS | | | | | | | | | | | | | | | | | | | | | | | | |
| FEMALE | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 UG/KG | | | | | | | | | | | | | | | | | | | | | | | | |
| | females (cont...) | | | | | | | | | | | | | | | | | | | | | | | |

Schwannoma Malignant

Vagina + + + + +
 Polyp, Multiple
 Squamous Cell Carcinoma X

HEMATOPOIETIC SYSTEM

Bone Marrow +
 Histiocytic Sarcoma
 Lymphoma Malignant

Lymph Node, Mandibular +
 Histiocytic Sarcoma
 Lymphoma Malignant

Lymph Node, Mesenteric +
 Histiocytic Sarcoma
 Lymphoma Malignant

Spleen +
 Lymphoma Malignant

Thymus +

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

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 A .. Autolysis precludes evaluation
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 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 4 | 7 | 4 | 3 | 5 | 6 | 7 | 7 | 5 | 5 | 7 | 7 | 7 | 4 | 7 | 5 | 6 | 5 | 5 | 7 | 5 | 7 | 7 | 7 | 7 | 4 | |
| | 9 | 3 | 4 | 7 | 0 | 1 | 3 | 3 | 6 | 1 | 3 | 3 | 3 | 4 | 3 | 6 | 5 | 0 | 7 | 3 | 9 | 3 | 3 | 3 | 4 | | |
| | 5 | 5 | 3 | 8 | 3 | 7 | 3 | 5 | 1 | 6 | 4 | 5 | 3 | 0 | 4 | 1 | 8 | 3 | 5 | 5 | 3 | 3 | 3 | 3 | 6 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SPRAGUE-DAWLEY RATS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 UG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 8 |
| | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | |

females (cont...)

Lymphoma Malignant

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma | | | | | | | | X | | | | | | | | | | X | | | | | | | | |
| Fibroadenoma | X | X | | | X | X | | | | | | | | X | | | X | | X | | | | | | | X |
| Fibroadenoma, Multiple | | | | | | | | | | | | X | | | | | | | | | | | X | | | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibroma | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Hemangiosarcoma | | | | | | | | | | | | X | | | | | | | | | | | | | | |
| Keratoacanthoma | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Schwannoma Malignant | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Schwannoma Malignant, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| DAY ON TEST | 4 | 7 | 4 | 3 | 5 | 6 | 7 | 7 | 5 | 5 | 7 | 7 | 7 | 4 | 7 | 5 | 6 | 5 | 5 | 7 | 5 | 7 | 7 | 7 | 4 |
| | 9 | 3 | 4 | 7 | 0 | 1 | 3 | 3 | 6 | 1 | 3 | 3 | 3 | 4 | 3 | 6 | 5 | 0 | 7 | 3 | 9 | 3 | 3 | 3 | 4 |
| | 5 | 5 | 3 | 8 | 3 | 7 | 3 | 5 | 1 | 6 | 4 | 5 | 3 | 0 | 4 | 1 | 8 | 3 | 5 | 5 | 3 | 3 | 3 | 3 | 6 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SPRAGUE-DAWLEY RATS
FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 UG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 |
| | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 |

females
(cont...)

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Pituitary Gland | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Thyroid Gland | | | | | | | | | | | | | | | | | | | | | | | | | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 4 | 7 | 4 | 3 | 5 | 6 | 7 | 7 | 5 | 5 | 7 | 7 | 7 | 4 | 7 | 5 | 6 | 5 | 5 | 7 | 5 | 7 | 7 | 7 | 4 | |
| | 9 | 3 | 4 | 7 | 0 | 1 | 3 | 3 | 6 | 1 | 3 | 3 | 3 | 4 | 3 | 6 | 5 | 0 | 7 | 3 | 9 | 3 | 3 | 3 | 4 | |
| | 5 | 5 | 3 | 8 | 3 | 7 | 3 | 5 | 1 | 6 | 4 | 5 | 3 | 0 | 4 | 1 | 8 | 3 | 5 | 5 | 3 | 3 | 3 | 3 | 6 | |
| SPRAGUE-DAWLEY RATS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 UG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | |
| | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |

females
(cont...)

Harderian Gland +

Lymphoma Malignant

URINARY SYSTEM

Kidney +

 Histiocytic Sarcoma

 Lymphoma Malignant

Urinary Bladder +

SYSTEMIC LESIONS

Multiple Organ +

 Histiocytic Sarcoma

 Lymphoma Malignant

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
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P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | 0 |
|----------------------------|---|-----------------|
| | 5 | 7 |
| | 1 | 0 |
| | 2 | 1 |
| <hr/> | | |
| SPRAGUE-DAWLEY RATS | 0 | 0 |
| FEMALE | 0 | 0 |
| | 0 | 0 |
| ANIMAL ID | 7 | 8 |
| 0 UG/KG | 9 | 0 |
| | | * TOTALS |

ALIMENTARY SYSTEM

| | | | |
|---|---|---|----|
| Esophagus | + | + | 51 |
| Intestine Large, Cecum | + | + | 52 |
| Intestine Large, Colon | + | + | 52 |
| Lymphoma Malignant | | | 1 |
| Schwannoma Malignant, Metastatic,
Uterus | | | 1 |
| Intestine Large, Rectum | + | + | 52 |
| Lymphoma Malignant | | | 1 |
| Intestine Small, Duodenum | + | + | 52 |
| Intestine Small, Ileum | + | + | 52 |
| Intestine Small, Jejunum | + | + | 52 |
| Lymphoma Malignant | | | 1 |
| Liver | + | + | 52 |
| Cholangioma | | | 1 |
| Histiocytic Sarcoma | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
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TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | 0 | |
|--|---|---|-----------------|
| | 5 | 7 | |
| | 1 | 0 | |
| | 2 | 1 | |
| <hr/> | | | |
| SPRAGUE-DAWLEY RATS | 0 | 0 | |
| FEMALE | 0 | 0 | |
| | 0 | 0 | |
| ANIMAL ID | 7 | 8 | |
| 0 UG/KG | 9 | 0 | |
| | | | * TOTALS |
| Lymphoma Malignant | | | 1 |
| Schwannoma Malignant, Metastatic, Uterus | | | 1 |
| Mesentery | | | 2 |
| Oral Mucosa | | | 1 |
| Pancreas | + | + | 52 |
| Lymphoma Malignant | | | 1 |
| Schwannoma Malignant, Metastatic, Uterus | | | 1 |
| Salivary Glands | + | + | 51 |
| Stomach, Forestomach | + | + | 52 |
| Stomach, Glandular | + | + | 52 |
| Tooth | | | 10 |
| Odontoma | | | 1 |

CARDIOVASCULAR SYSTEM

| | | | |
|--------------|---|---|-----------|
| Blood Vessel | + | + | 52 |
|--------------|---|---|-----------|

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | | | |
|----------------------------|---|---|-----------------|
| | 0 | 0 | |
| | 5 | 7 | |
| | 1 | 0 | |
| | 2 | 1 | |
| | | | |
| SPRAGUE-DAWLEY RATS | 0 | 0 | |
| FEMALE | 0 | 0 | |
| | 0 | 0 | |
| ANIMAL ID | 7 | 8 | |
| 0 UG/KG | 9 | 0 | |
| | | | * TOTALS |
| Lymphoma Malignant | | | 1 |
| Heart | + | + | 52 |
| Lymphoma Malignant | | | 1 |

ENDOCRINE SYSTEM

| | | | |
|--------------------------------------|---|---|-----------|
| Adrenal Cortex | + | + | 52 |
| Adenoma | | | 2 |
| Carcinoma | | | 1 |
| Carcinoma, Metastatic, Thyroid Gland | | | 1 |
| Lymphoma Malignant | | | 1 |
| Adrenal Medulla | + | + | 52 |
| Pheochromocytoma Benign | X | | 3 |
| Islets, Pancreatic | + | + | 52 |
| Parathyroid Gland | + | + | 47 |
| Pituitary Gland | + | + | 52 |
| Lymphoma Malignant | | | 1 |
| Pars Distalis, Adenoma | | | 16 |
| Pars Distalis, Adenoma, Multiple | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
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 CAS Number: 31508-00-6

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 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | 0 | |
|----------------------------|---|---|-----------------|
| | 5 | 7 | |
| | 1 | 0 | |
| | 2 | 1 | |
| <hr/> | | | |
| SPRAGUE-DAWLEY RATS | 0 | 0 | |
| FEMALE | 0 | 0 | |
| | 0 | 0 | |
| ANIMAL ID | 7 | 8 | |
| 0 UG/KG | 9 | 0 | |
| | | | * TOTALS |
| Pars Distalis, Carcinoma | X | | 2 |
| Thyroid Gland | + | + | 51 |
| C-cell, Adenoma | | | 9 |
| C-cell, Carcinoma | | | 2 |
| Follicular Cell, Adenoma | | | 1 |

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM

| | | | |
|---------------------|---|---|-----------|
| Clitoral Gland | + | + | 52 |
| Lymphoma Malignant | | | 1 |
| Ovary | + | + | 52 |
| Histiocytic Sarcoma | | | 1 |
| Luteoma | | | 1 |
| Lymphoma Malignant | | | 1 |
| Uterus | + | + | 52 |
| Carcinoma | | | 2 |
| Polyp Stromal | | | 3 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
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 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | 0 |
|----------------------------|---|-----------------|
| | 5 | 7 |
| | 1 | 0 |
| | 2 | 1 |
| <hr/> | | |
| SPRAGUE-DAWLEY RATS | 0 | 0 |
| FEMALE | 0 | 0 |
| | 0 | 0 |
| ANIMAL ID | 7 | 8 |
| 0 UG/KG | 9 | 0 |
| | | * TOTALS |

| | | |
|-------------------------|--|----------|
| Schwannoma Malignant | | 1 |
| <hr/> | | |
| Vagina | | 7 |
| Polyp, Multiple | | 1 |
| Squamous Cell Carcinoma | | 1 |

HEMATOPOIETIC SYSTEM

| | | | |
|------------------------|---|---|-----------|
| Bone Marrow | + | + | 52 |
| Histiocytic Sarcoma | | | 1 |
| Lymphoma Malignant | | | 1 |
| <hr/> | | | |
| Lymph Node, Mandibular | + | + | 51 |
| Histiocytic Sarcoma | | | 1 |
| Lymphoma Malignant | | | 2 |
| <hr/> | | | |
| Lymph Node, Mesenteric | + | + | 52 |
| Histiocytic Sarcoma | | | 1 |
| Lymphoma Malignant | | | 1 |
| <hr/> | | | |
| Spleen | + | + | 52 |
| Lymphoma Malignant | | | 1 |
| <hr/> | | | |
| Thymus | + | + | 51 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
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 First Dose M/F: NA / 03/26/04
 Lab: BAT

| | | | |
|---------------------|---|---|-----------------|
| DAY ON TEST | 0 | 0 | |
| | 5 | 7 | |
| | 1 | 0 | |
| | 2 | 1 | |
| | | | |
| SPRAGUE-DAWLEY RATS | 0 | 0 | |
| FEMALE | 0 | 0 | |
| | 0 | 0 | |
| ANIMAL ID | 7 | 8 | |
| 0 UG/KG | 9 | 0 | |
| | | | * TOTALS |

| | |
|--------------------|----------|
| Lymphoma Malignant | 1 |
|--------------------|----------|

INTEGUMENTARY SYSTEM

| | | | |
|---|---|---|-----------|
| Mammary Gland | + | + | 52 |
| Carcinoma | | | 2 |
| Fibroadenoma | | | 16 |
| Fibroadenoma, Multiple | | X | 9 |
| Histiocytic Sarcoma | | | 1 |
| Lymphoma Malignant | | | 1 |
| | | | |
| Skin | + | + | 52 |
| Fibroma | | | 2 |
| Hemangiosarcoma | | | 1 |
| Keratoacanthoma | | | 1 |
| Schwannoma Malignant | | | 1 |
| Subcutaneous Tissue, Schwannoma Malignant, Metastatic, Uterus | | | 1 |

MUSCULOSKELETAL SYSTEM

| | | | |
|------|---|---|-----------|
| Bone | + | + | 52 |
|------|---|---|-----------|

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
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 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| | | |
|-------------|---|---|
| DAY ON TEST | 0 | 0 |
| | 5 | 7 |
| | 1 | 0 |
| | 2 | 1 |

**SPRAGUE-DAWLEY RATS
 FEMALE**

0 UG/KG

ANIMAL ID

| | |
|---|---|
| 0 | 0 |
| 0 | 0 |
| 0 | 0 |
| 7 | 8 |
| 9 | 0 |

*** TOTALS**

NERVOUS SYSTEM

| | | | |
|--|---|---|-----------|
| Brain | + | + | 52 |
| Carcinoma, Metastatic, Pituitary Gland | X | | 2 |
| Lymphoma Malignant | | | 1 |

RESPIRATORY SYSTEM

| | | | |
|--------------------------------------|---|---|-----------|
| Lung | + | + | 51 |
| Carcinoma, Metastatic, Thyroid Gland | | | 1 |
| Histiocytic Sarcoma | | | 1 |
| Lymphoma Malignant | | | 1 |
| Nose | + | + | 52 |
| Lymphoma Malignant | | | 1 |
| Trachea | + | + | 51 |
| Lymphoma Malignant | | | 1 |

SPECIAL SENSES SYSTEM

| | | | |
|--------------------|---|---|-----------|
| Eye | + | + | 52 |
| Lymphoma Malignant | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | 0 | 5 | 7 | 1 | 0 | 2 | 1 | |
|----------------------------|---|---|---|---|---|---|---|-----------------|--|
| <hr/> | | | | | | | | | |
| SPRAGUE-DAWLEY RATS | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 8 | |
| FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 8 | |
| 0 UG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | |
| | | | | | | | | * TOTALS | |

| | | | | | | | | | |
|--------------------|---|---|--|--|--|--|--|----------|-----------|
| Harderian Gland | + | + | | | | | | | 52 |
| Lymphoma Malignant | | | | | | | | 1 | |

URINARY SYSTEM

| | | | | | | | | | |
|---------------------|---|---|--|--|--|--|--|----------|-----------|
| Kidney | + | + | | | | | | | 52 |
| Histiocytic Sarcoma | | | | | | | | 1 | |
| Lymphoma Malignant | | | | | | | | 1 | |
| Urinary Bladder | + | + | | | | | | | 52 |

SYSTEMIC LESIONS

| | | | | | | | | | |
|---------------------|---|---|--|--|--|--|--|----------|-----------|
| Multiple Organ | + | + | | | | | | | 52 |
| Histiocytic Sarcoma | | | | | | | | 1 | |
| Lymphoma Malignant | | | | | | | | 2 | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
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P04: NEOPLASMS BY INDIVIDUAL ANIMAL
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 Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 0 | 7 | 6 | 3 | 6 | 2 | 6 | 7 | 7 | 6 | 3 | 6 | 7 | 3 | 5 | 7 | 7 | 7 | 4 | 4 | 7 | 7 | 6 | 7 | 6 | | |
| | 2 | 3 | 3 | 0 | 0 | 6 | 7 | 3 | 3 | 0 | 4 | 6 | 0 | 8 | 7 | 3 | 3 | 3 | 9 | 8 | 3 | 3 | 2 | 0 | 0 | | |
| | 8 | 3 | 7 | 2 | 8 | 5 | 4 | 3 | 4 | 2 | 1 | 5 | 6 | 6 | 1 | 3 | 3 | 3 | 5 | 4 | 4 | 3 | 0 | 8 | 2 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SPRAGUE-DAWLEY RATS
FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100 UG/KG | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 2 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 9 | |

females (cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | X | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hepatocellular Adenoma | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibroma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | X | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 7 | 6 | 3 | 6 | 2 | 6 | 7 | 7 | 6 | 3 | 6 | 7 | 3 | 5 | 7 | 7 | 7 | 4 | 4 | 7 | 7 | 6 | 7 | 6 |
| | 2 | 3 | 3 | 0 | 0 | 6 | 7 | 3 | 3 | 0 | 4 | 6 | 0 | 8 | 7 | 3 | 3 | 3 | 9 | 8 | 3 | 3 | 2 | 0 | 0 |
| | 8 | 3 | 7 | 2 | 8 | 5 | 4 | 3 | 4 | 2 | 1 | 5 | 6 | 6 | 1 | 3 | 3 | 3 | 5 | 4 | 4 | 3 | 0 | 8 | 2 |
| SPRAGUE-DAWLEY RATS
FEMALE
100 UG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 2 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

females (cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | X | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | X | | | | | | | | | | | | | | | | | | | | | | |
| Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tooth | | + | | | | | | + | | | | | | | | | | | | + | | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Lymphoma Malignant | | | X | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | | 0 | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | 0 7 6 3 6 2 6 7 7 6 3 6 7 3 5 7 7 7 4 4 7 7 6 7 6 | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | | 2 3 3 0 0 6 7 3 3 0 4 6 0 8 7 3 3 3 9 8 3 3 2 0 0 | | | | | | | | | | | | | | | | | | | | | | | |
| | | 8 3 7 2 8 5 4 3 4 2 1 5 6 6 1 3 3 3 5 4 4 3 0 8 2 | | | | | | | | | | | | | | | | | | | | | | | |
| SPRAGUE-DAWLEY RATS | | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| FEMALE | | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| 100 UG/KG | | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| | | 0 0 0 0 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 | | | | | | | | | | | | | | | | | | | | | | | |
| | | 2 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 | | | | | | | | | | | | | | | | | | | | | | | |
| | | females (cont...) | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Medulla
Pheochromocytoma Benign | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X |
| Islets, Pancreatic
Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland
Carcinoma, Metastatic, Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | X | + | |
| Pituitary Gland
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pars Distalis, Adenoma | | X | | | X | | | | | | | X | X | | X | X | X | | X | | X | X | | | |
| Pars Distalis, Carcinoma | | | | | | | X | | | | | | | | | | | | | | | | | | |
| Thyroid Gland
Lymphoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| C-cell, Adenoma | | | | | | | X | | | | | | | | | | X | | | | | | | | |
| C-cell, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | X | | |
| Follicular Cell, Adenoma | | | | | | | | | | | | | | | | | | | X | | | | | | |

GENERAL BODY SYSTEM
 NONE

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
|-----------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 7 | 6 | 3 | 6 | 2 | 6 | 7 | 7 | 6 | 3 | 6 | 7 | 3 | 5 | 7 | 7 | 7 | 4 | 4 | 7 | 7 | 6 | 7 | 6 |
| | | 2 | 3 | 3 | 0 | 0 | 6 | 7 | 3 | 3 | 0 | 4 | 6 | 0 | 8 | 7 | 3 | 3 | 3 | 9 | 8 | 3 | 3 | 2 | 0 | 0 |
| | | 8 | 3 | 7 | 2 | 8 | 5 | 4 | 3 | 4 | 2 | 1 | 5 | 6 | 6 | 1 | 3 | 3 | 3 | 5 | 4 | 4 | 3 | 0 | 8 | 2 |
| SPRAGUE-DAWLEY RATS FEMALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100 UG/KG | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | 2 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

females (cont...)

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | X | | | | | | | | | | | | | | | | | | | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma | | | X | | | | | | | | X | | | | | | | | | | | | | | | |
| Polyp Stromal | | | | | | | | | | X | | | | | | X | | | | | X | X | | | | X |
| Schwannoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | X | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | | | | + | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Lymphoma Malignant | | | | X | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Lymphoma Malignant | | | | X | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 7 | 6 | 3 | 6 | 2 | 6 | 7 | 7 | 6 | 3 | 6 | 7 | 3 | 5 | 7 | 7 | 7 | 4 | 4 | 7 | 7 | 6 | 7 | 6 | 7 | 6 |
| | 2 | 3 | 3 | 0 | 0 | 6 | 7 | 3 | 3 | 0 | 4 | 6 | 0 | 8 | 7 | 3 | 3 | 3 | 9 | 8 | 3 | 3 | 2 | 0 | 0 | 0 | 0 |
| | 8 | 3 | 7 | 2 | 8 | 5 | 4 | 3 | 4 | 2 | 1 | 5 | 6 | 6 | 1 | 3 | 3 | 3 | 5 | 4 | 4 | 3 | 0 | 8 | 2 | | |

**SPRAGUE-DAWLEY RATS
 FEMALE
 100 UG/KG**

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 2 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | |

**females
 (cont...)**

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Mammary Gland | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibroadenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibroadenoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Keratoacanthoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Schwannoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 7 | 6 | 3 | 6 | 2 | 6 | 7 | 7 | 6 | 3 | 6 | 7 | 3 | 5 | 7 | 7 | 7 | 4 | 4 | 7 | 7 | 6 | 7 | 6 |
| | 2 | 3 | 3 | 0 | 0 | 6 | 7 | 3 | 3 | 0 | 4 | 6 | 0 | 8 | 7 | 3 | 3 | 3 | 9 | 8 | 3 | 3 | 2 | 0 | 0 |
| | 8 | 3 | 7 | 2 | 8 | 5 | 4 | 3 | 4 | 2 | 1 | 5 | 6 | 6 | 1 | 3 | 3 | 3 | 5 | 4 | 4 | 3 | 0 | 8 | 2 |
| SPRAGUE-DAWLEY RATS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100 UG/KG | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 2 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

females
(cont...)

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Schwannoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oligodendroglioma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
TEF evaluation (PCB 118)
CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
Time Report Requested: 12:05:16
First Dose M/F: NA / 03/26/04
Lab: BAT

| DAY ON TEST | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---|
| | 00238 | 00733 | 00633 | 00300 | 00667 | 00733 | 00333 | 00330 | 00468 | 00733 | 00334 | 00215 | 00666 | 00133 | 00333 | 00333 | 00573 | 00777 | 00777 | 00447 | 00447 | 00776 | 00776 | 00200 | 00082 | |
| SPRAGUE-DAWLEY RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100 UG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

females (cont...)

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | X | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | X | | | | | | | | | | | | | | | | | | | | | | |
| Mesenchymal Tumor Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

SYSTEMIC LESIONS

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | X | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
x .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 6 5 6 6 7 7 7 0 7 7 7 3 7 6 7 2 7 5 4 6 7 7 7 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 2 5 7 5 7 3 3 3 5 2 3 3 5 3 9 3 9 3 7 8 7 3 3 3 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 8 8 5 8 2 4 4 4 3 3 3 4 7 5 2 4 8 3 9 2 2 3 4 5 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| SPRAGUE-DAWLEY RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100 UG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 |
| | 0 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 8 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 |

females (cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hepatocellular Adenoma | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibroma | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
|---------------------------------------|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 7 | 6 | 5 | 6 | 6 | 7 | 7 | 7 | 0 | 7 | 7 | 7 | 3 | 7 | 6 | 7 | 2 | 7 | 5 | 4 | 6 | 7 | 7 | 7 | 5 | |
| | | 2 | 5 | 7 | 5 | 7 | 3 | 3 | 3 | 5 | 2 | 3 | 3 | 5 | 3 | 9 | 3 | 9 | 3 | 7 | 8 | 7 | 3 | 3 | 3 | 0 | |
| | | 8 | 8 | 5 | 8 | 2 | 4 | 4 | 4 | 3 | 3 | 3 | 4 | 7 | 5 | 2 | 4 | 8 | 3 | 9 | 2 | 2 | 3 | 4 | 5 | 3 | |
| SPRAGUE-DAWLEY RATS
FEMALE | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 |
| | 100 UG/KG | 0 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 8 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 3 |

females
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma | | | | | | | | | | X | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sarcoma | | | | | | | | | | | | | | | X | | | | | | | | | | | | |
| Tooth | | | | | | | | | | + | | | | | | | | | | | | | | | | | + |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 6 | 5 | 6 | 6 | 7 | 7 | 7 | 0 | 7 | 7 | 7 | 3 | 7 | 6 | 7 | 2 | 7 | 5 | 4 | 6 | 7 | 7 | 7 | 5 |
| | 2 | 5 | 7 | 5 | 7 | 3 | 3 | 3 | 5 | 2 | 3 | 3 | 5 | 3 | 9 | 3 | 9 | 3 | 7 | 8 | 7 | 3 | 3 | 3 | 0 |
| | 8 | 8 | 5 | 8 | 2 | 4 | 4 | 4 | 3 | 3 | 3 | 4 | 7 | 5 | 2 | 4 | 8 | 3 | 9 | 2 | 2 | 3 | 4 | 5 | 3 |
| SPRAGUE-DAWLEY RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 100 UG/KG | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 |
| | 0 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 8 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 |

females
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pheochromocytoma Benign | | | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Adenoma | | X | | | | X | | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | + | M | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | M | M | + | + | + | + | |
| Carcinoma, Metastatic, Thyroid Gland | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Adenoma | X | X | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| Pars Distalis, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-cell, Adenoma | | | | X | X | | | | | | | | | | | | | | | | | | X | | |
| C-cell, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Follicular Cell, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | |

GENERAL BODY SYSTEM
 NONE

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
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 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

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 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 6 | 5 | 6 | 6 | 7 | 7 | 7 | 0 | 7 | 7 | 7 | 3 | 7 | 6 | 7 | 2 | 7 | 5 | 4 | 6 | 7 | 7 | 5 | |
| | 2 | 5 | 7 | 5 | 7 | 3 | 3 | 3 | 5 | 2 | 3 | 3 | 5 | 3 | 9 | 3 | 9 | 3 | 7 | 8 | 7 | 3 | 3 | 0 | |
| | 8 | 8 | 5 | 8 | 2 | 4 | 4 | 4 | 3 | 3 | 3 | 4 | 7 | 5 | 2 | 4 | 8 | 3 | 9 | 2 | 2 | 3 | 4 | 3 | |
| SPRAGUE-DAWLEY RATS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 100 UG/KG | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| ANIMAL ID | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | |
| | 0 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 8 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 |

females
(cont...)

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyp Stromal | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Schwannoma Malignant | | | | | | | | | | | | | | | X | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
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| | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------------------|--------------------------|
| | 0728 | 0725 | 0725 | 0725 | 0725 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | 0727 | | 0727 | |
| SPRAGUE-DAWLEY RATS FEMALE | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 100 UG/KG | females (cont...) |
| ANIMAL ID | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | | |
| | 0034 | 0034 | 0034 | 0034 | 0034 | 0034 | 0034 | 0034 | 0034 | 0034 | 0034 | 0034 | 0034 | 0034 | 0034 | 0034 | 0034 | 0034 | 0034 | 0034 | 0034 | 0034 | 0034 | 0034 | 0034 | | |
| | 0035 | 0035 | 0035 | 0035 | 0035 | 0035 | 0035 | 0035 | 0035 | 0035 | 0035 | 0035 | 0035 | 0035 | 0035 | 0035 | 0035 | 0035 | 0035 | 0035 | 0035 | 0035 | 0035 | 0035 | 0035 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + + + + + + + + + + + + + + + + + M + + + + + + + + | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymoma Malignant | X | | | | | | | | | | | | | | | | | | | | | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Mammary Gland | + | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma | X X | | | | | | | | | | | | | | | | | | | | | | | |
| Fibroadenoma | X | | | | | | | | | | | | | | | | | | | | | | | |
| Fibroadenoma, Multiple | X | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin | + | | | | | | | | | | | | | | | | | | | | | | | |
| Keratoacanthoma | X | | | | | | | | | | | | | | | | | | | | | | | |
| Schwannoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
TEF evaluation (PCB 118)
CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
Time Report Requested: 12:05:16
First Dose M/F: NA / 03/26/04
Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 7 | 6 | 5 | 6 | 6 | 7 | 7 | 7 | 0 | 7 | 7 | 7 | 3 | 7 | 6 | 7 | 2 | 7 | 5 | 4 | 6 | 7 | 7 | 7 | 5 |
| | 2 | 5 | 7 | 5 | 7 | 3 | 3 | 3 | 5 | 2 | 3 | 3 | 5 | 3 | 9 | 3 | 9 | 3 | 7 | 8 | 7 | 3 | 3 | 3 | 0 |
| | 8 | 8 | 5 | 8 | 2 | 4 | 4 | 4 | 3 | 3 | 3 | 4 | 7 | 5 | 2 | 4 | 8 | 3 | 9 | 2 | 2 | 3 | 4 | 5 | 3 |
| SPRAGUE-DAWLEY RATS
FEMALE
100 UG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 |
| | 0 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 8 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 |
| ANIMAL ID | females (cont...) | | | | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | + |
| Schwannoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | X |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oligodendroglioma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | X |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
x .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|----------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7 | | 6 | 5 | 6 | 6 | 7 | 7 | 7 | 0 | 7 | 7 | 7 | 3 | 7 | 6 | 7 | 2 | 7 | 5 | 4 | 6 | 7 | 7 | 7 | 5 | |
| 2 | | 5 | 7 | 5 | 7 | 3 | 3 | 3 | 5 | 2 | 3 | 3 | 5 | 3 | 9 | 3 | 9 | 3 | 7 | 8 | 7 | 3 | 3 | 3 | 0 | |
| 8 | | 8 | 5 | 8 | 2 | 4 | 4 | 4 | 3 | 3 | 3 | 4 | 7 | 5 | 2 | 4 | 8 | 3 | 9 | 2 | 2 | 3 | 4 | 5 | 3 | |
| SPRAGUE-DAWLEY RATS | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| FEMALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 100 UG/KG | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| ANIMAL ID | | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | |
| | | 0 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 8 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 |

females (cont...)

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesenchymal Tumor Malignant | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

SYSTEMIC LESIONS

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | | 0 | 0 |
|-------------------------------|--|-----------------|---|
| | | 5 | 7 |
| | | 7 | 3 |
| | | 1 | 3 |
| | | | |
| SPRAGUE-DAWLEY RATS
FEMALE | | 0 | 0 |
| | | 0 | 0 |
| | | 3 | 3 |
| | | 7 | 7 |
| | | 4 | 5 |
| 100 UG/KG | | | |
| | | * TOTALS | |

ALIMENTARY SYSTEM

| | | | |
|---------------------------|---|---|----|
| Esophagus | + | + | 52 |
| Intestine Large, Cecum | + | + | 51 |
| Intestine Large, Colon | + | + | 52 |
| Lymphoma Malignant | | | 1 |
| Intestine Large, Rectum | + | + | 52 |
| Intestine Small, Duodenum | + | + | 52 |
| Intestine Small, Ileum | + | + | 51 |
| Intestine Small, Jejunum | + | + | 52 |
| Liver | + | + | 51 |
| Hepatocellular Adenoma | | | 1 |
| Mesentery | | | 1 |
| Fibroma | | | 1 |
| Pancreas | + | + | 52 |
| Lymphoma Malignant | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
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 Lab: BAT

| DAY ON TEST | | 0 | 0 |
|-------------------------------|--|---|-----------------|
| | | 5 | 7 |
| | | 7 | 3 |
| | | 1 | 3 |
| | | | |
| SPRAGUE-DAWLEY RATS
FEMALE | | 0 | 0 |
| | | 0 | 0 |
| | | 3 | 3 |
| | | 7 | 7 |
| | | 4 | 5 |
| ANIMAL ID | | | |
| 100 UG/KG | | | |
| | | | * TOTALS |

| | | | |
|----------------------|---|---|----|
| Salivary Glands | + | + | 51 |
| Lymphoma Malignant | | | 1 |
| | | | |
| Stomach, Forestomach | + | + | 52 |
| | | | |
| Stomach, Glandular | + | + | 52 |
| Adenoma | | | 1 |
| Lymphoma Malignant | | | 1 |
| Sarcoma | | | 1 |
| | | | |
| Tooth | | | 5 |

CARDIOVASCULAR SYSTEM

| | | | |
|--------------|---|---|----|
| Blood Vessel | + | + | 52 |
| | | | |
| Heart | + | + | 52 |

ENDOCRINE SYSTEM

| | | | |
|--------------------|---|---|----|
| Adrenal Cortex | + | + | 52 |
| Adenoma | | | 2 |
| Lymphoma Malignant | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
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 CAS Number: 31508-00-6

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 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | | 0 | 0 |
|-------------------------------|--|---|-----------------|
| | | 5 | 7 |
| | | 7 | 3 |
| | | 1 | 3 |
| | | | |
| SPRAGUE-DAWLEY RATS
FEMALE | | 0 | 0 |
| | | 0 | 0 |
| | | 3 | 3 |
| | | 7 | 7 |
| | | 4 | 5 |
| 100 UG/KG | | | |
| | | | * TOTALS |

| | | | | |
|--------------------------------------|---|---|---|-----------|
| Adrenal Medulla | + | + | | 52 |
| Pheochromocytoma Benign | | | | 1 |
| Islets, Pancreatic | + | + | | 52 |
| Adenoma | | | | 2 |
| Parathyroid Gland | + | M | | 46 |
| Carcinoma, Metastatic, Thyroid Gland | | | | 1 |
| Pituitary Gland | + | + | | 52 |
| Lymphoma Malignant | | | | 1 |
| Pars Distalis, Adenoma | | | X | 24 |
| Pars Distalis, Carcinoma | | | | 1 |
| Thyroid Gland | + | + | | 51 |
| Lymphoma Malignant | | | | 1 |
| C-cell, Adenoma | | | | 5 |
| C-cell, Carcinoma | | | | 1 |
| Follicular Cell, Adenoma | | | | 1 |

GENERAL BODY SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

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 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | 0 | |
|----------------------------|---|---|-----------------|
| | 5 | 7 | |
| | 7 | 3 | |
| | 1 | 3 | |
| | | | |
| SPRAGUE-DAWLEY RATS | 0 | 0 | |
| FEMALE | 0 | 0 | |
| | 3 | 3 | |
| ANIMAL ID | 7 | 7 | |
| 100 UG/KG | 4 | 5 | |
| | | | * TOTALS |

GENITAL SYSTEM

| | | | |
|----------------------|---|---|-----------|
| Clitoral Gland | + | + | 52 |
| Carcinoma | | | 1 |
| | | | |
| Ovary | + | + | 52 |
| Lymphoma Malignant | | | 1 |
| | | | |
| Uterus | + | + | 52 |
| Carcinoma | | | 2 |
| Polyp Stromal | | | 6 |
| Schwannoma Malignant | | | 1 |

HEMATOPOIETIC SYSTEM

| | | | |
|---------------------------------|---|---|-----------|
| Bone Marrow | + | + | 52 |
| Lymphoma Malignant | | | 1 |
| | | | |
| Lymph Node | + | | 2 |
| Mediastinal, Lymphoma Malignant | | | 1 |
| Pancreatic, Lymphoma Malignant | | | 1 |
| | | | |
| Lymph Node, Mandibular | + | + | 51 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

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 Lab: BAT

| DAY ON TEST | | 0 | 0 | |
|-----------------------------|--|---|---|-----------------|
| | | 5 | 7 | |
| | | 7 | 3 | |
| | | 1 | 3 | |
| SPRAGUE-DAWLEY RATS | | 0 | 0 | |
| FEMALE | | 0 | 0 | |
| | | 3 | 3 | |
| ANIMAL ID | | 7 | 7 | |
| 100 UG/KG | | 4 | 5 | |
| | | | | * TOTALS |
| Lymphoma Malignant | | | | 1 |
| Lymph Node, Mesenteric | | | | 51 |
| | | + | + | 1 |
| Lymphoma Malignant | | | | 1 |
| Spleen | | | | 52 |
| | | + | + | 1 |
| Lymphoma Malignant | | | | 1 |
| Thymus | | | | 51 |
| | | + | + | 1 |
| Lymphoma Malignant | | | | 1 |
| Thymoma Malignant | | | | 1 |
| INTEGUMENTARY SYSTEM | | | | |
| Mammary Gland | | | | 51 |
| | | + | + | 6 |
| Carcinoma | | | | 18 |
| | | X | | 11 |
| Fibroadenoma | | | | 1 |
| Fibroadenoma, Multiple | | | | 51 |
| Lymphoma Malignant | | | | 1 |
| Skin | | | | 51 |
| | | + | + | 1 |
| Keratoacanthoma | | | | 1 |
| Schwannoma Malignant | | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
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 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | | 0 | 0 |
|-------------------------------|--|---|-----------------|
| | | 5 | 7 |
| | | 7 | 3 |
| | | 1 | 3 |
| | | | |
| SPRAGUE-DAWLEY RATS
FEMALE | | 0 | 0 |
| | | 0 | 0 |
| | | 3 | 3 |
| | | 7 | 7 |
| | | 4 | 5 |
| ANIMAL ID | | | |
| 100 UG/KG | | | |
| | | | * TOTALS |

MUSCULOSKELETAL SYSTEM

| | | | |
|----------------------|---|---|-----------|
| Bone | + | + | 52 |
| Skeletal Muscle | | | 1 |
| Schwannoma Malignant | | | 1 |

NERVOUS SYSTEM

| | | | |
|-----------------------------|---|---|-----------|
| Brain | + | + | 52 |
| Lymphoma Malignant | | | 1 |
| Oligodendroglioma Malignant | | | 1 |

RESPIRATORY SYSTEM

| | | | |
|--------------------|---|---|-----------|
| Lung | + | + | 52 |
| Lymphoma Malignant | | | 1 |
| Nose | + | + | 52 |
| Trachea | + | + | 52 |
| Lymphoma Malignant | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
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 BLANK .. Not examined microscopically

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 First Dose M/F: NA / 03/26/04
 Lab: BAT

| | | | |
|---------------------|---|---|-----------------|
| DAY ON TEST | 0 | 0 | |
| | 5 | 7 | |
| | 7 | 3 | |
| | 1 | 3 | |
| | | | |
| SPRAGUE-DAWLEY RATS | 0 | 0 | |
| FEMALE | 0 | 0 | |
| | 3 | 3 | |
| ANIMAL ID | 7 | 7 | |
| 100 UG/KG | 4 | 5 | |
| | | | * TOTALS |

SPECIAL SENSES SYSTEM

| | | | |
|--------------------|---|---|-----------|
| Eye | + | + | 52 |
| Harderian Gland | + | + | 52 |
| Lymphoma Malignant | | | 1 |

URINARY SYSTEM

| | | | |
|-----------------------------|---|---|-----------|
| Kidney | + | + | 52 |
| Lymphoma Malignant | | | 1 |
| Mesenchymal Tumor Malignant | | | 1 |
| Urinary Bladder | + | + | 52 |

SYSTEMIC LESIONS

| | | | |
|--------------------|---|---|-----------|
| Multiple Organ | + | + | 52 |
| Lymphoma Malignant | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

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 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|-----------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | | 6 | 5 | 7 | 3 | 7 | 7 | 7 | 1 | 7 | 1 | 1 | 7 | 6 | 7 | 4 | 6 | 7 | 7 | 6 | 4 | 5 | 5 | 4 | 4 | 7 |
| DAY ON TEST | | 9 | 7 | 3 | 9 | 3 | 0 | 3 | 8 | 3 | 6 | 9 | 3 | 8 | 3 | 1 | 5 | 3 | 3 | 5 | 3 | 4 | 8 | 6 | 5 | 3 |
| DAY ON TEST | | 4 | 5 | 3 | 3 | 3 | 7 | 5 | 3 | 3 | 3 | 7 | 3 | 7 | 5 | 2 | 8 | 4 | 3 | 2 | 3 | 5 | 9 | 9 | 3 | 5 |
| SPRAGUE-DAWLEY RATS FEMALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 220 UG/KG | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| ANIMAL ID | | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 |
| ANIMAL ID | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 8 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |

females
(cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | X | | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Uterus | | | | | | | | | | X | | | | | | | | | | | | | | | |
| Hepatocellular Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | X |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 6 | 5 | 7 | 3 | 7 | 7 | 7 | 1 | 7 | 1 | 1 | 7 | 6 | 7 | 4 | 6 | 7 | 7 | 6 | 4 | 5 | 5 | 4 | 4 |
| SPRAGUE-DAWLEY RATS FEMALE | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| ANIMAL ID | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 8 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 |

females (cont...)

Lymphoma Malignant

X

X

Mesentery
Carcinoma, Metastatic, Uterus
Schwannoma Malignant

+
X

Oral Mucosa
Squamous Cell Carcinoma

Pancreas
Carcinoma, Metastatic, Uterus
Lymphoma Malignant

+
X
X

Salivary Glands

+ +

Stomach, Forestomach
Lymphoma Malignant

+
X

Stomach, Glandular
Lymphoma Malignant

+
X

Tooth

+

CARDIOVASCULAR SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
x .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 6 | 5 | 7 | 3 | 7 | 7 | 7 | 1 | 7 | 1 | 1 | 7 | 6 | 7 | 4 | 6 | 7 | 7 | 6 | 4 | 5 | 5 | 4 | 4 | 7 |
| | 9 | 7 | 3 | 9 | 3 | 0 | 3 | 8 | 3 | 6 | 9 | 3 | 8 | 3 | 1 | 5 | 3 | 3 | 5 | 3 | 4 | 8 | 6 | 5 | 3 |
| | 4 | 5 | 3 | 3 | 3 | 7 | 5 | 3 | 3 | 3 | 7 | 3 | 7 | 5 | 2 | 8 | 4 | 3 | 2 | 3 | 5 | 9 | 9 | 3 | 5 |

SPRAGUE-DAWLEY RATS
FEMALE
220 UG/KG

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 8 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |

females
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | X |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pheochromocytoma Benign | | | | | X | | X | | | | | | | | | | | | | | | | | | |
| Pheochromocytoma Complex | | | | | | | | | | | | | | | X | | | | | | | | | | |
| Pheochromocytoma Malignant | | | | | X | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Parathyroid Gland | M | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pars Distalis, Adenoma | | | | | X | | X | | | | | | | | | | | X | X | X | | | | | X |

- * .. Total animals with tissue examined microscopically; Total animals with tumor
- + .. Tissue examined microscopically
- x .. Lesion present
- I .. Insufficient tissue

- M .. Missing tissue
- A .. Autolysis precludes evaluation
- BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 6 | 5 | 7 | 3 | 7 | 7 | 7 | 1 | 7 | 1 | 1 | 7 | 6 | 7 | 4 | 6 | 7 | 7 | 6 | 4 | 5 | 5 | 4 | 4 | 7 |
| | 9 | 7 | 3 | 9 | 3 | 0 | 3 | 8 | 3 | 6 | 9 | 3 | 8 | 3 | 1 | 5 | 3 | 3 | 5 | 3 | 4 | 8 | 6 | 5 | 3 |
| | 4 | 5 | 3 | 3 | 3 | 7 | 5 | 3 | 3 | 3 | 7 | 3 | 7 | 5 | 2 | 8 | 4 | 3 | 2 | 3 | 5 | 9 | 9 | 3 | 5 |
| SPRAGUE-DAWLEY RATS
FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 220 UG/KG | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 8 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |

females
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Thyroid Gland | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Bilateral, Adenoma | | | | | X | | | | | | | | | | | | | | | | | | | | |
| C-cell, Adenoma | | | | | | X | X | | | | | X | | | | X | | | | | | | | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Uterus | | | | | X | | | | | | | | | | | | | | | | | | | | |
| Granulosa-Theca Tumor Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Polyp Stromal | | | | | X | | | | | | | | | | X | | | | | | | | | | |
| Squamous Cell Carcinoma | | | | | | | X | | | | | | | | | | | | | | | | | | |
| Bilateral, Polyp Stromal | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 6 | 5 | 7 | 3 | 7 | 7 | 7 | 1 | 7 | 1 | 1 | 7 | 6 | 7 | 4 | 6 | 7 | 7 | 6 | 4 | 5 | 5 | 4 | 4 | 7 |
| | 9 | 7 | 3 | 9 | 3 | 0 | 3 | 8 | 3 | 6 | 9 | 3 | 8 | 3 | 1 | 5 | 3 | 3 | 5 | 3 | 4 | 8 | 6 | 5 | 3 |
| | 4 | 5 | 3 | 3 | 3 | 7 | 5 | 3 | 3 | 3 | 7 | 3 | 7 | 5 | 2 | 8 | 4 | 3 | 2 | 3 | 5 | 9 | 9 | 3 | 5 |

| SPRAGUE-DAWLEY RATS
FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 |
| 220 UG/KG | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 8 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |

females
(cont...)

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | X | | | | | | | | | | | | | | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | + |
| Lumbar, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Pancreatic, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | X | | | | | | | | | | | | | | | X |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | X | | | | | | | | | | | | | | | X |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Uterus | | | | | | X | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | X | | | | | | | | | | | | | | | X |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + |
| Lymphoma Malignant | | | | | | | | | | X | | | | | | | | | | | | | | | X |

INTEGUMENTARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 6 | 5 | 7 | 3 | 7 | 7 | 7 | 1 | 7 | 1 | 1 | 7 | 6 | 7 | 4 | 6 | 7 | 7 | 6 | 4 | 5 | 5 | 4 | 4 | 7 |
| | 9 | 7 | 3 | 9 | 3 | 0 | 3 | 8 | 3 | 6 | 9 | 3 | 8 | 3 | 1 | 5 | 3 | 3 | 5 | 3 | 4 | 8 | 6 | 5 | 3 |
| | 4 | 5 | 3 | 3 | 3 | 7 | 5 | 3 | 3 | 3 | 7 | 3 | 7 | 5 | 2 | 8 | 4 | 3 | 2 | 3 | 5 | 9 | 9 | 3 | 5 |
| SPRAGUE-DAWLEY RATS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 220 UG/KG | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 8 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |

females (cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma | | | | | | | | | | | | | | | | | | | X | | | | | |
| Carcinoma | | | | X | | | X | | | | X | | | | | | X | | | | X | | | |
| Fibroadenoma | | X | X | | | | X | | | | | | | X | X | X | | X | | | | | | |
| Fibroadenoma, Multiple | X | | | | X | | | | | | | X | | | | | | | | X | | | | |
| Lymphoma Malignant | | | | | | | | | | X | | | | | | | | | | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibroma | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | X | |
| Pinna, Neural Crest Tumor | | | | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ependymoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | Animals | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) | | |
|-----------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------------------|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | | | |
| 0 6 9 4 | 0 5 7 4 | 0 7 3 5 | 0 3 9 3 | 0 7 3 3 | 0 7 0 7 | 0 7 3 5 | 0 1 8 3 | 0 7 3 3 | 0 1 6 3 | 0 1 9 7 | 0 1 3 3 | 0 7 8 5 | 0 4 6 2 | 0 7 3 8 | 0 4 1 5 | 0 6 3 4 | 0 7 3 3 | 0 6 5 2 | 0 4 3 5 | 0 5 4 9 | 0 5 8 9 | 0 4 6 3 | 0 4 5 5 | 0 0 3 5 | 0 | |
| SPRAGUE-DAWLEY RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 220 UG/KG | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 |

Schwannoma Malignant

X

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Carcinoma, Metastatic, Mammary Gland | | | | | | | | | | | | | | | X | | | | | | | | | | | | |
| Carcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | X | | | | | | | | | | | | X |

Nose +

Trachea +

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | | | | X |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 6 | 5 | 7 | 3 | 7 | 7 | 7 | 1 | 7 | 1 | 1 | 7 | 6 | 7 | 4 | 6 | 7 | 7 | 6 | 4 | 5 | 5 | 4 | 4 | 7 |
| | 9 | 7 | 3 | 9 | 3 | 0 | 3 | 8 | 3 | 6 | 9 | 3 | 8 | 3 | 1 | 5 | 3 | 3 | 5 | 3 | 4 | 8 | 6 | 5 | 3 |
| | 4 | 5 | 3 | 3 | 3 | 7 | 5 | 3 | 3 | 3 | 7 | 3 | 7 | 5 | 2 | 8 | 4 | 3 | 2 | 3 | 5 | 9 | 9 | 3 | 5 |
| SPRAGUE-DAWLEY RATS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 220 UG/KG | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 8 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |

females (cont...)

Lymphoma Malignant X
 Nephroblastoma X

Urinary Bladder +
 Carcinoma, Metastatic, Uterus X

SYSTEMIC LESIONS

Multiple Organ +
 Lymphoma Malignant X X

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-----------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 5 | 2 | 7 | 4 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 5 | 6 | 6 | 7 | 6 | | |
| | | 0 | 2 | 3 | 4 | 3 | 3 | 1 | 3 | 3 | 3 | 3 | 1 | 3 | 4 | 3 | 3 | 3 | 0 | 3 | 3 | 9 | 5 | 1 | 3 | 9 |
| | | 4 | 9 | 4 | 6 | 5 | 4 | 7 | 3 | 3 | 3 | 5 | 3 | 5 | 5 | 4 | 5 | 5 | 1 | 4 | 3 | 5 | 2 | 7 | 4 | 4 |
| SPRAGUE-DAWLEY RATS FEMALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 220 UG/KG | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | | 5 | 9 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

females (cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Ileum | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Jejunum | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocellular Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
Time Report Requested: 12:05:16
First Dose M/F: NA / 03/26/04
Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 5 | 2 | 7 | 4 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 5 | 6 | 6 | 7 | 6 | |
| | 0 | 2 | 3 | 4 | 3 | 3 | 1 | 3 | 3 | 3 | 3 | 1 | 3 | 4 | 3 | 3 | 3 | 0 | 3 | 3 | 9 | 5 | 1 | 3 | 9 |
| | 4 | 9 | 4 | 6 | 5 | 4 | 7 | 3 | 3 | 3 | 5 | 3 | 5 | 5 | 4 | 5 | 5 | 1 | 4 | 3 | 5 | 2 | 7 | 4 | 4 |
| SPRAGUE-DAWLEY RATS
FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 220 UG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 5 | 9 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

**females
(cont...)**

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Schwannoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tooth | | | | | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|--|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 5 | 2 | 7 | 4 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 5 | 6 | 6 | 7 | 6 | | | | |
| | 0 | 2 | 3 | 4 | 3 | 3 | 1 | 3 | 3 | 3 | 3 | 1 | 3 | 4 | 3 | 3 | 3 | 0 | 3 | 3 | 9 | 5 | 1 | 3 | 9 | | | |
| | 4 | 9 | 4 | 6 | 5 | 4 | 7 | 3 | 3 | 3 | 5 | 3 | 5 | 5 | 4 | 5 | 5 | 1 | 4 | 3 | 5 | 2 | 7 | 4 | 4 | | | |
| SPRAGUE-DAWLEY RATS
FEMALE
220 UG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 5 | 9 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | females
(cont...) | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pheochromocytoma Benign | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pheochromocytoma Complex | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pheochromocytoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma | X | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | M |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pars Distalis, Adenoma | | | | | X | X | | | X | X | X | | | X | X | | | X | | | X | | | X | X | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
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 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

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 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 5 | 2 | 7 | 4 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 5 | 6 | 6 | 7 | 6 | | | |
| | 0 | 2 | 3 | 4 | 3 | 3 | 1 | 3 | 3 | 3 | 3 | 1 | 3 | 4 | 3 | 3 | 3 | 0 | 3 | 3 | 9 | 5 | 1 | 3 | 9 | | |
| | 4 | 9 | 4 | 6 | 5 | 4 | 7 | 3 | 3 | 3 | 5 | 3 | 5 | 5 | 4 | 5 | 5 | 1 | 4 | 3 | 5 | 2 | 7 | 4 | 4 | | |
| SPRAGUE-DAWLEY RATS
FEMALE
220 UG/KG
ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 5 | 9 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 8 | |

females
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Bilateral, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-cell, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | |

X

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Granulosa-Theca Tumor Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyp Stromal | | | | | | X | | | | | X | | | | | | | | | | | | | | | X |
| Squamous Cell Carcinoma | | | | | | X | | | | | | | | | | | | | | X | | | | | | |
| Bilateral, Polyp Stromal | | | | | | | X | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
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 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 5 | 2 | 7 | 4 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 5 | 6 | 6 | 7 | 6 | | |
| | 0 | 2 | 3 | 4 | 3 | 3 | 1 | 3 | 3 | 3 | 3 | 1 | 3 | 4 | 3 | 3 | 3 | 0 | 3 | 3 | 9 | 5 | 1 | 3 | 9 |
| | 4 | 9 | 4 | 6 | 5 | 4 | 7 | 3 | 3 | 3 | 5 | 3 | 5 | 5 | 4 | 5 | 5 | 1 | 4 | 3 | 5 | 2 | 7 | 4 | 4 |

**SPRAGUE-DAWLEY RATS
 FEMALE
 220 UG/KG**

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 5 | 9 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

**females
(cont...)**

Mammary Gland

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma | | | X | | | | | | | X | | | | | | | | | | | | | | |
| Fibroadenoma | | | | X | | | | X | X | | | X | X | X | | | X | | | | X | | X | |
| Fibroadenoma, Multiple | | | X | | | | X | X | | | | | | X | | | | | | X | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |

Skin

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fibroma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |
| Pinna, Neural Crest Tumor | | | | | | | | | | | | | | | | | | | | | | | | X |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

NERVOUS SYSTEM

Brain

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ependymoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | | X |

Spinal Cord

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|----------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 5 | 2 | 7 | 4 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 5 | 6 | 6 | 7 | 6 | |
| | | 0 | 2 | 3 | 4 | 3 | 3 | 1 | 3 | 3 | 3 | 3 | 1 | 3 | 4 | 3 | 3 | 3 | 0 | 3 | 3 | 9 | 5 | 1 | 3 | 9 |
| | | 4 | 9 | 4 | 6 | 5 | 4 | 7 | 3 | 3 | 3 | 5 | 3 | 5 | 5 | 4 | 5 | 5 | 1 | 4 | 3 | 5 | 2 | 7 | 4 | 4 |
| SPRAGUE-DAWLEY RATS | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FEMALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 220 UG/KG | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| ANIMAL ID | | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | | 5 | 9 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

females
(cont...)

Schwannoma Malignant

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Carcinoma, Metastatic, Mammary Gland | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
TEF evaluation (PCB 118)
CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
Time Report Requested: 12:05:16
First Dose M/F: NA / 03/26/04
Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5 | 2 | 7 | 4 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 5 | 6 | 6 | 7 | 6 | |
| | 0 | 2 | 3 | 4 | 3 | 3 | 1 | 3 | 3 | 3 | 3 | 1 | 3 | 4 | 3 | 3 | 3 | 0 | 3 | 3 | 9 | 5 | 1 | 3 | 9 |
| | 4 | 9 | 4 | 6 | 5 | 4 | 7 | 3 | 3 | 3 | 5 | 3 | 5 | 5 | 4 | 5 | 5 | 1 | 4 | 3 | 5 | 2 | 7 | 4 | 4 |
| SPRAGUE-DAWLEY RATS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 220 UG/KG | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| ANIMAL ID | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 5 | 9 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

females
(cont...)

Lymphoma Malignant
Nephroblastoma

Urinary Bladder
Carcinoma, Metastatic, Uterus

+ +

SYSTEMIC LESIONS

Multiple Organ
Lymphoma Malignant

+ +

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
x .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| | | | |
|---------------------|---|---|-----------------|
| DAY ON TEST | 0 | 0 | |
| | 7 | 7 | |
| | 3 | 3 | |
| | 5 | 3 | |
| | | | |
| SPRAGUE-DAWLEY RATS | 0 | 0 | |
| FEMALE | 0 | 0 | |
| | 4 | 4 | |
| ANIMAL ID | 7 | 8 | |
| 220 UG/KG | 9 | 0 | |
| | | | * TOTALS |

ALIMENTARY SYSTEM

| | | | |
|-------------------------------|---|---|-----------|
| Esophagus | + | + | 52 |
| Intestine Large, Cecum | + | + | 51 |
| Lymphoma Malignant | | | 1 |
| Intestine Large, Colon | + | + | 52 |
| Intestine Large, Rectum | + | + | 52 |
| Lymphoma Malignant | | | 1 |
| Intestine Small, Duodenum | + | + | 52 |
| Lymphoma Malignant | | | 1 |
| Intestine Small, Ileum | + | + | 50 |
| Lymphoma Malignant | | | 1 |
| Intestine Small, Jejunum | + | + | 50 |
| Lymphoma Malignant | | | 1 |
| Liver | + | + | 52 |
| Carcinoma, Metastatic, Uterus | | | 1 |
| Hepatocellular Adenoma | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | | 0 | 0 | |
|-------------------------------|--|---|---|-----------------|
| | | 7 | 7 | |
| | | 3 | 3 | |
| | | 5 | 3 | |
| SPRAGUE-DAWLEY RATS | | 0 | 0 | |
| FEMALE | | 0 | 0 | |
| 220 UG/KG | | 4 | 4 | |
| ANIMAL ID | | 7 | 8 | |
| | | 9 | 0 | |
| | | | | * TOTALS |
| Lymphoma Malignant | | | | 2 |
| Mesentery | | | | 3 |
| Carcinoma, Metastatic, Uterus | | | | 2 |
| Schwannoma Malignant | | | | 1 |
| Oral Mucosa | | | | 1 |
| Squamous Cell Carcinoma | | | | 1 |
| Pancreas | | + | + | 52 |
| Carcinoma, Metastatic, Uterus | | | | 2 |
| Lymphoma Malignant | | | | 1 |
| Salivary Glands | | + | + | 52 |
| Stomach, Forestomach | | + | + | 52 |
| Lymphoma Malignant | | | | 1 |
| Stomach, Glandular | | + | + | 52 |
| Lymphoma Malignant | | | | 1 |
| Tooth | | + | | 5 |

CARDIOVASCULAR SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | 0 | 7 | 7 | 3 | 3 | 5 | 3 |
|----------------------------|---|---|---|---|---|---|---|-----------------|
| SPRAGUE-DAWLEY RATS | | | | | | | | |
| FEMALE | | | | | | | | |
| 220 UG/KG | | | | | | | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 4 | 4 | 7 | 8 |
| | 9 | 0 | | | | | | |
| | | | | | | | | * TOTALS |

| | | | | | | | | | |
|--------------------|---|---|--|--|--|--|--|--|-----------|
| Blood Vessel | + | + | | | | | | | 52 |
| Heart | + | + | | | | | | | 52 |
| Lymphoma Malignant | | | | | | | | | 1 |

ENDOCRINE SYSTEM

| | | | | | | | | | |
|----------------------------|---|---|--|--|--|--|--|--|-----------|
| Adrenal Cortex | + | + | | | | | | | 52 |
| Adrenal Medulla | + | + | | | | | | | 52 |
| Pheochromocytoma Benign | | | | | | | | | 3 |
| Pheochromocytoma Complex | | | | | | | | | 1 |
| Pheochromocytoma Malignant | | | | | | | | | 1 |
| Islets, Pancreatic | + | + | | | | | | | 52 |
| Adenoma | | | | | | | | | 1 |
| Carcinoma | | | | | | | | | 1 |
| Parathyroid Gland | + | + | | | | | | | 47 |
| Pituitary Gland | + | + | | | | | | | 52 |
| Pars Distalis, Adenoma | X | X | | | | | | | 18 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | 0 | |
|----------------------------|---|---|-----------------|
| | 7 | 7 | |
| | 3 | 3 | |
| | 5 | 3 | |
| | | | |
| SPRAGUE-DAWLEY RATS | 0 | 0 | |
| FEMALE | 0 | 0 | |
| | 4 | 4 | |
| ANIMAL ID | 7 | 8 | |
| 220 UG/KG | 9 | 0 | |
| | | | * TOTALS |

| | | | |
|--------------------|---|---|-----------|
| Thyroid Gland | + | + | 51 |
| Bilateral, Adenoma | | | 1 |
| C-cell, Adenoma | | | 5 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | |
|---------------------------------|---|---|-----------|
| Clitoral Gland | + | + | 51 |
| Ovary | + | + | 52 |
| Carcinoma, Metastatic, Uterus | | | 1 |
| Granulosa-Theca Tumor Malignant | X | | 2 |
| Lymphoma Malignant | | | 1 |
| Uterus | + | + | 52 |
| Carcinoma | | | 1 |
| Lymphoma Malignant | | | 1 |
| Polyp Stromal | | | 5 |
| Squamous Cell Carcinoma | | | 3 |
| Bilateral, Polyp Stromal | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| | | | |
|---------------------|---|---|-----------------|
| DAY ON TEST | 0 | 0 | |
| | 7 | 7 | |
| | 3 | 3 | |
| | 5 | 3 | |
| | | | |
| SPRAGUE-DAWLEY RATS | 0 | 0 | |
| FEMALE | 0 | 0 | |
| | 4 | 4 | |
| ANIMAL ID | 7 | 8 | |
| 220 UG/KG | 9 | 0 | |
| | | | * TOTALS |

HEMATOPOIETIC SYSTEM

| | | | |
|--------------------------------|---|---|-----------|
| Bone Marrow | + | + | 52 |
| Lymphoma Malignant | | | 1 |
| | | | |
| Lymph Node | | | 1 |
| Lumbar, Lymphoma Malignant | | | 1 |
| Pancreatic, Lymphoma Malignant | | | 1 |
| | | | |
| Lymph Node, Mandibular | + | + | 52 |
| Lymphoma Malignant | | | 2 |
| | | | |
| Lymph Node, Mesenteric | + | + | 52 |
| Lymphoma Malignant | | | 2 |
| | | | |
| Spleen | + | + | 52 |
| Carcinoma, Metastatic, Uterus | | | 1 |
| Lymphoma Malignant | | | 2 |
| | | | |
| Thymus | + | + | 51 |
| Lymphoma Malignant | | | 2 |

INTEGUMENTARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
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P04: NEOPLASMS BY INDIVIDUAL ANIMAL
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 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | 0 | 7 | 7 | 3 | 3 | 5 | 3 |
|----------------------------|---|---|---|---|---|---|---|-----------------|
| SPRAGUE-DAWLEY RATS | | | | | | | | |
| FEMALE | | | | | | | | |
| 220 UG/KG | | | | | | | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 4 | 4 | 7 | 8 |
| | 9 | 0 | | | | | | |
| | | | | | | | | * TOTALS |

| | | | | | | | | | |
|---------------------------|---|---|--|---|--|--|--|--|-----------|
| Mammary Gland | + | + | | | | | | | 52 |
| Adenoma | | | | | | | | | 1 |
| Carcinoma | | | | | | | | | 7 |
| Fibroadenoma | | | | X | | | | | 17 |
| Fibroadenoma, Multiple | X | | | | | | | | 10 |
| Lymphoma Malignant | | | | | | | | | 1 |
| Skin | + | + | | | | | | | 52 |
| Fibroma | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | 1 |
| Pinna, Neural Crest Tumor | | | | | | | | | 1 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | |
|------|---|---|--|--|--|--|--|--|-----------|
| Bone | + | + | | | | | | | 52 |
|------|---|---|--|--|--|--|--|--|-----------|

NERVOUS SYSTEM

| | | | | | | | | | |
|----------------------|---|---|--|--|--|--|--|--|-----------|
| Brain | + | + | | | | | | | 52 |
| Ependymoma Malignant | | | | | | | | | 1 |
| Spinal Cord | | | | | | | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | 0 | |
|----------------------------|---|---|-----------------|
| | 7 | 7 | |
| | 3 | 3 | |
| | 5 | 3 | |
| | | | |
| SPRAGUE-DAWLEY RATS | 0 | 0 | |
| FEMALE | 0 | 0 | |
| | 4 | 4 | |
| ANIMAL ID | 7 | 8 | |
| 220 UG/KG | 9 | 0 | |
| | | | * TOTALS |

Schwannoma Malignant 1

RESPIRATORY SYSTEM

| | | | |
|--------------------------------------|---|---|-----------|
| Lung | + | + | 52 |
| Carcinoma, Metastatic, Mammary Gland | | | 1 |
| Carcinoma, Metastatic, Uterus | | | 1 |
| Lymphoma Malignant | | | 2 |
| | | | |
| Nose | + | + | 52 |
| | | | |
| Trachea | + | + | 52 |

SPECIAL SENSES SYSTEM

| | | | |
|-----------------|---|---|-----------|
| Eye | + | + | 52 |
| | | | |
| Harderian Gland | + | + | 52 |

URINARY SYSTEM

| | | | |
|-------------------------------|---|---|-----------|
| Kidney | + | + | 52 |
| Carcinoma, Metastatic, Uterus | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | | 0 | 0 |
|-------------------------------|--|---|-----------------|
| | | 7 | 7 |
| | | 3 | 3 |
| | | 5 | 3 |
| | | | |
| SPRAGUE-DAWLEY RATS
FEMALE | | 0 | 0 |
| | | 0 | 0 |
| | | 4 | 4 |
| ANIMAL ID | | 7 | 8 |
| 220 UG/KG | | 9 | 0 |
| | | | * TOTALS |

| | | | | |
|-------------------------------|---|---|--|-----------|
| Lymphoma Malignant | | | | 1 |
| Nephroblastoma | | | | 1 |
| | | | | |
| Urinary Bladder | + | + | | 52 |
| Carcinoma, Metastatic, Uterus | | | | 1 |

SYSTEMIC LESIONS

| | | | | |
|--------------------|---|---|--|-----------|
| | | | | |
| Multiple Organ | + | + | | 52 |
| Lymphoma Malignant | | | | 2 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|---------------------------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------------------|
| DAY ON TEST | | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 4 | 7 | 2 | 5 | 7 | 7 | 5 | 7 | 7 | 6 | 7 | 7 | 7 | |
| DAY ON TEST | | 2 | 3 | 5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 8 | 3 | 5 | 3 | 3 | 7 | 2 | 3 | 9 | 3 | 3 | 0 | 3 | 3 | 3 | |
| DAY ON TEST | | 7 | 4 | 8 | 5 | 5 | 5 | 5 | 4 | 5 | 3 | 5 | 4 | 1 | 7 | 5 | 8 | 5 | 9 | 4 | 3 | 3 | 5 | 7 | 3 | 3 | |
| SPRAGUE-DAWLEY RATS
FEMALE | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | ANIMAL ID | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | ANIMAL ID | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 460 UG/KG | ANIMAL ID | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 2 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | females
(cont...) |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hepatocellular Adenoma | | | X | | | | | | | | X | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | + | | + | | | | | | | | | | | | | | | | | | | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | | | + |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 4 | 7 | 2 | 5 | 7 | 7 | 5 | 7 | 7 | 6 | 7 | 7 |
| | 2 | 3 | 5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 8 | 3 | 5 | 3 | 3 | 7 | 2 | 3 | 9 | 3 | 3 | 0 | 3 | 3 |
| | 7 | 4 | 8 | 5 | 5 | 5 | 5 | 4 | 5 | 3 | 5 | 4 | 1 | 7 | 5 | 8 | 5 | 9 | 4 | 3 | 3 | 5 | 7 | 3 | 3 |
| SPRAGUE-DAWLEY RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 460 UG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 2 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |

females (cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Acinus, Adenoma | | | X | | | | | | | | | | | | | | | | | | | | | | X |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Tooth | + | + | | | | | | | | | | | | | | | | | | | | | | | + |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + |
| Adenoma | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 4 | 7 | 2 | 5 | 7 | 7 | 5 | 7 | 7 | 6 | 7 | 7 |
| | 2 | 3 | 5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 8 | 3 | 5 | 3 | 3 | 7 | 2 | 3 | 9 | 3 | 3 | 0 | 3 | 3 |
| | 7 | 4 | 8 | 5 | 5 | 5 | 5 | 4 | 5 | 3 | 5 | 4 | 1 | 7 | 5 | 8 | 5 | 9 | 4 | 3 | 3 | 5 | 7 | 3 | 3 |
| SPRAGUE-DAWLEY RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 |
| 460 UG/KG | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 2 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pheochromocytoma Benign | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pheochromocytoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | M | + | + |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pars Distalis, Adenoma | X | X | | X | | | X | X | | | X | | | | | | | X | | X | X | X | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + |
| Bilateral, C-cell, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | X | |
| C-cell, Adenoma | | | | | | | | X | | | | X | | | | | | X | | X | | | | | |
| C-cell, Adenoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-cell, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | |

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 4 | 7 | 2 | 5 | 7 | 7 | 5 | 7 | 7 | 6 | 7 | 7 | 0 |
| | 2 | 3 | 5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 8 | 3 | 5 | 3 | 3 | 7 | 2 | 3 | 9 | 3 | 3 | 0 | 3 | 3 |
| | 7 | 4 | 8 | 5 | 5 | 5 | 5 | 4 | 5 | 3 | 5 | 4 | 1 | 7 | 5 | 8 | 5 | 9 | 4 | 3 | 3 | 5 | 7 | 3 | 3 |
| SPRAGUE-DAWLEY RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 460 UG/KG | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 2 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |

females
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma | | | | | | | | X | | | | | | | | | X | | | | | | | | |
| Polyp Stromal | X | | X | | | | | | | | | | | | | X | | | X | | | X | | X | |
| Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Schwannoma Malignant | | | | | | | | | | | | | | | X | | | | | | | | | | |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vagina | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyp | | | + | | | | | | | | | | | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
|----------------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------------------|
| DAY ON TEST | | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 4 | 7 | 2 | 5 | 7 | 7 | 5 | 7 | 7 | 6 | 7 | 7 |
| | | 2 | 3 | 5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 8 | 3 | 5 | 3 | 3 | 7 | 2 | 3 | 9 | 3 | 3 | 0 | 3 | 3 | |
| | | 7 | 4 | 8 | 5 | 5 | 5 | 5 | 4 | 5 | 3 | 5 | 4 | 1 | 7 | 5 | 8 | 5 | 9 | 4 | 3 | 3 | 5 | 7 | 3 | 3 |
| SPRAGUE-DAWLEY RATS | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FEMALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 460 UG/KG | ANIMAL ID | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenolipoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibroadenoma | X | | X | | | | X | X | X | X | | | X | X | | | | | | | X | | | X | X | |
| Fibroadenoma, Multiple | | X | | | | | | | | | X | | | | | X | X | | X | | | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Schwannoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | | | | | | | | X | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
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| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------------|---|
| | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 4 | 7 | 2 | 5 | 7 | 7 | 5 | 7 | 7 | 6 | 7 | 7 |
| | 2 | 3 | 5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 8 | 3 | 5 | 3 | 3 | 7 | 2 | 3 | 9 | 3 | 3 | 0 | 3 | 3 |
| | 7 | 4 | 8 | 5 | 5 | 5 | 5 | 4 | 5 | 3 | 5 | 4 | 1 | 7 | 5 | 8 | 5 | 9 | 4 | 3 | 3 | 5 | 7 | 3 | 3 |
| SPRAGUE-DAWLEY RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 460 UG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 2 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |
| | | | | | | | | | | | | | | | | | | | | | | | | females (cont...) | |

MUSCULOSKELETAL SYSTEM

Bone +

NERVOUS SYSTEM

Brain +
 Lymphoma Malignant

RESPIRATORY SYSTEM

Lung +
 Alveolar/Bronchiolar Carcinoma, Multiple
 Carcinoma, Metastatic, Uncertain Primary Site X
 Lymphoma Malignant

Nose +

Trachea +

SPECIAL SENSES SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ANIMAL ID | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 4 | 7 | 2 | 5 | 7 | 7 | 5 | 7 | 7 | 6 | 7 | 7 | 3 | 3 | 3 | 3 |
| SPRAGUE-DAWLEY RATS
FEMALE
460 UG/KG | 2 | 3 | 5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 8 | 3 | 5 | 3 | 3 | 7 | 2 | 3 | 9 | 3 | 3 | 0 | 3 | 3 | 7 | 7 | 7 | |
| ANIMAL ID | 7 | 4 | 8 | 5 | 5 | 5 | 5 | 4 | 5 | 3 | 5 | 4 | 1 | 7 | 5 | 8 | 5 | 9 | 4 | 3 | 3 | 5 | 7 | 3 | 3 | 6 | 7 | 7 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| ANIMAL ID | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 2 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | |

**females
(cont...)**

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Sarcoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

SYSTEMIC LESIONS

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenolipoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5 | 4 | 7 | 6 | 5 | 6 | 5 | 6 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 3 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 |
| SPRAGUE-DAWLEY RATS
FEMALE | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 460 UG/KG | 3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 5 6 7 8 9 0 1 2 3 4 5 1 2 3 4 5 3 6 7 8 9 0 6 7 8 | | | | | | | | | | | | | | | | | | | | | | | |

females (cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Esophagus | + | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Cecum | + | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Colon | + | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Large, Rectum | + | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Duodenum | + | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Ileum | + | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Jejunum | + | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | | | | |
| Liver | + | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocellular Adenoma | X X | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | X X | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | + | | | | | | | | | | | | | | | | | | | | | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5 4 7 6 5 6 5 6 7 5 7 7 7 7 7 3 7 7 7 7 7 7 6 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 7 1 3 7 9 5 8 4 3 8 3 3 3 3 3 0 3 3 3 3 3 3 0 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 2 3 7 3 5 2 3 4 2 0 5 5 4 5 5 0 3 3 5 3 3 3 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| SPRAGUE-DAWLEY RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 460 UG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | |
| | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | |
| | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 3 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 |

females (cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Acinus, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Tooth | | | | | + | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | X | | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | X |
| Lymphoma Malignant | | | | | | | | | X | X | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| DAY ON TEST | 5 | 4 | 7 | 6 | 5 | 6 | 5 | 6 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 3 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | |
| | 7 | 1 | 3 | 7 | 9 | 5 | 8 | 4 | 3 | 8 | 3 | 3 | 3 | 3 | 3 | 0 | 3 | 3 | 3 | 3 | 3 | 3 | 0 | 3 | |
| | 1 | 2 | 3 | 7 | 3 | 5 | 2 | 3 | 4 | 2 | 0 | 5 | 5 | 4 | 5 | 5 | 0 | 3 | 3 | 5 | 3 | 3 | 2 | 5 | |
| SPRAGUE-DAWLEY RATS
FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | |
| ANIMAL ID | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | |
| 460 UG/KG | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 3 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 |

females
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pheochromocytoma Benign | | | | | | | | | | | | X | X | | | | | | | | | | | |
| Pheochromocytoma Malignant | | | X | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma | | | | | | | | | | | | | | X | X | | | | | | | X | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pars Distalis, Adenoma | | | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | | X | X | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Bilateral, C-cell, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | |
| C-cell, Adenoma | | | | | X | | | | | X | X | X | | | | | | X | X | | | | | |
| C-cell, Adenoma, Multiple | | | | | | | | | | | | | | | | | | | | X | | | | |
| C-cell, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | X | |

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
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 First Dose M/F: NA / 03/26/04
 Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 5 | 4 | 7 | 6 | 5 | 6 | 5 | 6 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 3 | 7 | 7 | 7 | 7 | 7 | 6 |
| | 7 | 1 | 3 | 7 | 9 | 5 | 8 | 4 | 3 | 8 | 3 | 3 | 3 | 3 | 3 | 0 | 3 | 3 | 3 | 3 | 3 | 0 | 3 |
| | 1 | 2 | 3 | 7 | 3 | 5 | 2 | 3 | 4 | 2 | 0 | 5 | 5 | 4 | 5 | 5 | 0 | 3 | 3 | 5 | 3 | 3 | 2 |

SPRAGUE-DAWLEY RATS
FEMALE
460 UG/KG

ANIMAL ID

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 |
| 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 3 | 6 | 7 | 8 | 9 | 0 | 6 | 7 |

females (cont...)

| | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adenoma | X | | | | | | | | | | | | | | | | | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma | X | | | | | | | | | | | | | | | | | | | | | |
| Polyp Stromal | | | | | | | | X | | | | | | | | | X | | | | X | X |
| Sarcoma | | | | | | | | | | | | | | | | | | | | | | |
| Schwannoma Malignant | | | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | |
| Vagina | | | | | | | | | | | | | | | | | | | | | | |
| Polyp | | | | | | | | | | | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymph Node | + | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | X | X | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
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| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 5 | 4 | 7 | 6 | 5 | 6 | 5 | 6 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 3 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 |
| | 7 | 1 | 3 | 7 | 9 | 5 | 8 | 4 | 3 | 8 | 3 | 3 | 3 | 3 | 3 | 0 | 3 | 3 | 3 | 3 | 3 | 3 | 0 | 3 |
| | 1 | 2 | 3 | 7 | 3 | 5 | 2 | 3 | 4 | 2 | 0 | 5 | 5 | 4 | 5 | 5 | 0 | 3 | 3 | 5 | 3 | 3 | 2 | 5 |
| SPRAGUE-DAWLEY RATS
FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 460 UG/KG | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 |
| ANIMAL ID | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 3 | 6 | 7 | 8 | 9 | 0 | 6 | 7 |
| | | | | | | | | | | | | | | | | | | | | | | | | |

females
(cont...)

Lymph Node, Mesenteric
Lymphoma Malignant

Spleen
Lymphoma Malignant

Thymus
Lymphoma Malignant

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | X | | | | | | | | | | | | | | | |
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | X | X | | | | | | | | | | | | | | |
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + |
| | | | | | | | | | X | | | | | | | | | | | | | | | |

INTEGUMENTARY SYSTEM

Mammary Gland
Adenolipoma
Adenoma
Carcinoma
Fibroadenoma
Fibroadenoma, Multiple

Skin
Schwannoma Malignant
Squamous Cell Papilloma

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | X | | | | | | | | | |
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* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5 | 4 | 7 | 6 | 5 | 6 | 5 | 6 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 3 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 |
| | 7 | 1 | 3 | 7 | 9 | 5 | 8 | 4 | 3 | 8 | 3 | 3 | 3 | 3 | 3 | 3 | 0 | 3 | 3 | 3 | 3 | 3 | 3 | 0 | 3 |
| | 1 | 2 | 3 | 7 | 3 | 5 | 2 | 3 | 4 | 2 | 0 | 5 | 5 | 4 | 5 | 5 | 0 | 3 | 3 | 5 | 3 | 3 | 3 | 2 | 5 |
| SPRAGUE-DAWLEY RATS
FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 460 UG/KG | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 |
| | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 3 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 |

females
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | X | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Sarcoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | | |

SYSTEMIC LESIONS

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenolipoma | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Lymphoma Malignant | | | | | | | X | X | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | 0 |
|----------------------------|---|-----------------|
| | 7 | 6 |
| | 3 | 2 |
| | 4 | 7 |
| <hr/> | | |
| SPRAGUE-DAWLEY RATS | 0 | 0 |
| FEMALE | 0 | 0 |
| | 5 | 5 |
| ANIMAL ID | 7 | 8 |
| 460 UG/KG | 9 | 0 |
| | | * TOTALS |

ALIMENTARY SYSTEM

| | | | |
|---------------------------|---|---|-----------|
| Esophagus | + | + | 52 |
| Intestine Large, Cecum | + | + | 52 |
| Intestine Large, Colon | + | + | 52 |
| Intestine Large, Rectum | + | + | 52 |
| Intestine Small, Duodenum | + | + | 52 |
| Intestine Small, Ileum | + | + | 52 |
| Intestine Small, Jejunum | + | + | 52 |
| Lymphoma Malignant | | | 1 |
| Liver | + | + | 52 |
| Hepatocellular Adenoma | | | 4 |
| Lymphoma Malignant | | | 2 |
| Mesentery | | | 3 |
| Oral Mucosa | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
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P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | 0 | 7 | 6 | 3 | 2 | 4 | 7 |
|----------------------------|---|---|---|---|---|---|---|-----------------|
| SPRAGUE-DAWLEY RATS | | | | | | | | |
| FEMALE | | | | | | | | |
| 460 UG/KG | | | | | | | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 5 | 5 | 7 | 8 |
| | 9 | 0 | | | | | | |
| | | | | | | | | * TOTALS |

| | | | | | | | | | |
|----------------------|---|---|--|--|--|--|--|--|-----------|
| Pancreas | + | + | | | | | | | 52 |
| Acinus, Adenoma | | | | | | | | | 2 |
| Salivary Glands | + | + | | | | | | | 51 |
| Stomach, Forestomach | + | + | | | | | | | 52 |
| Stomach, Glandular | + | + | | | | | | | 52 |
| Tooth | | | | | | | | | 5 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | |
|--------------------|---|---|--|--|--|--|--|--|-----------|
| Blood Vessel | + | + | | | | | | | 52 |
| Heart | + | + | | | | | | | 52 |
| Lymphoma Malignant | | | | | | | | | 1 |

ENDOCRINE SYSTEM

| | | | | | | | | | |
|--------------------|---|---|--|--|--|--|--|--|-----------|
| Adrenal Cortex | + | + | | | | | | | 51 |
| Adenoma | | | | | | | | | 2 |
| Lymphoma Malignant | | | | | | | | | 2 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | 0 | |
|----------------------------|---|---|-----------------|
| | 7 | 6 | |
| | 3 | 2 | |
| | 4 | 7 | |
| <hr/> | | | |
| SPRAGUE-DAWLEY RATS | 0 | 0 | |
| FEMALE | 0 | 0 | |
| | 5 | 5 | |
| ANIMAL ID | 7 | 8 | |
| 460 UG/KG | 9 | 0 | |
| | | | * TOTALS |
| <hr/> | | | |
| Adrenal Medulla | + | + | 52 |
| Pheochromocytoma Benign | | | 2 |
| Pheochromocytoma Malignant | | | 1 |
| <hr/> | | | |
| Islets, Pancreatic | + | + | 52 |
| Adenoma | | | 3 |
| <hr/> | | | |
| Parathyroid Gland | + | + | 50 |
| <hr/> | | | |
| Pituitary Gland | + | + | 52 |
| Pars Distalis, Adenoma | X | X | 24 |
| <hr/> | | | |
| Thyroid Gland | + | + | 51 |
| Bilateral, C-cell, Adenoma | | | 1 |
| C-cell, Adenoma | | X | 11 |
| C-cell, Adenoma, Multiple | | | 1 |
| C-cell, Carcinoma | | | 1 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | |
|----------------|---|---|-----------|
| Clitoral Gland | + | + | 52 |
|----------------|---|---|-----------|

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
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 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | 0 | |
|----------------------------|---|---|-----------------|
| | 7 | 6 | |
| | 3 | 2 | |
| | 4 | 7 | |
| <hr/> | | | |
| SPRAGUE-DAWLEY RATS | 0 | 0 | |
| FEMALE | 0 | 0 | |
| | 5 | 5 | |
| ANIMAL ID | 7 | 8 | |
| 460 UG/KG | 9 | 0 | |
| | | | * TOTALS |
| <hr/> | | | |
| Adenoma | | | 1 |
| Ovary | + | + | 52 |
| Uterus | + | + | 52 |
| Carcinoma | | | 3 |
| Polyp Stromal | | | 10 |
| Sarcoma | | X | 1 |
| Schwannoma Malignant | | | 1 |
| Squamous Cell Carcinoma | | X | 1 |
| Vagina | | | 1 |
| Polyp | | | 1 |

HEMATOPOIETIC SYSTEM

| | | | |
|---------------------------------|---|---|-----------|
| Bone Marrow | + | + | 52 |
| Lymph Node | | | 1 |
| Mediastinal, Lymphoma Malignant | | | 1 |
| Pancreatic, Lymphoma Malignant | | | 1 |
| Lymph Node, Mandibular | + | + | 51 |
| Lymphoma Malignant | | | 2 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | 0 | 7 | 6 | 3 | 2 | 4 | 7 |
|----------------------------|---|---|---|---|---|---|---|-----------------|
| SPRAGUE-DAWLEY RATS | 0 | 0 | 0 | 0 | 5 | 5 | 7 | 8 |
| FEMALE | 0 | 0 | 5 | 5 | 7 | 8 | 9 | 0 |
| 460 UG/KG | | | | | | | | |
| | | | | | | | | * TOTALS |

| | | | | | | | | |
|------------------------|---|---|--|--|--|--|--|-----------|
| Lymph Node, Mesenteric | + | + | | | | | | 52 |
| Lymphoma Malignant | | | | | | | | 1 |
| Spleen | + | + | | | | | | 52 |
| Lymphoma Malignant | | | | | | | | 2 |
| Thymus | + | + | | | | | | 50 |
| Lymphoma Malignant | | | | | | | | 1 |

INTEGUMENTARY SYSTEM

| | | | | | | | | |
|-------------------------|---|---|---|--|--|--|--|-----------|
| Mammary Gland | + | + | | | | | | 52 |
| Adenolipoma | | | | | | | | 1 |
| Adenoma | | | | | | | | 2 |
| Carcinoma | | | X | | | | | 4 |
| Fibroadenoma | | | X | | | | | 19 |
| Fibroadenoma, Multiple | | | | | | | | 14 |
| Skin | + | + | | | | | | 52 |
| Schwannoma Malignant | | | | | | | | 1 |
| Squamous Cell Papilloma | | | | | | | | 2 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
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 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| | | | |
|---------------------|---|---|-----------------|
| DAY ON TEST | 0 | 0 | |
| | 7 | 6 | |
| | 3 | 2 | |
| | 4 | 7 | |
| | | | |
| SPRAGUE-DAWLEY RATS | 0 | 0 | |
| FEMALE | 0 | 0 | |
| | 5 | 5 | |
| ANIMAL ID | 7 | 8 | |
| 460 UG/KG | 9 | 0 | |
| | | | * TOTALS |

MUSCULOSKELETAL SYSTEM

| | | | |
|------|---|---|-----------|
| Bone | + | + | 52 |
|------|---|---|-----------|

NERVOUS SYSTEM

| | | | |
|--------------------|---|---|-----------|
| Brain | + | + | 52 |
| Lymphoma Malignant | | | 1 |

RESPIRATORY SYSTEM

| | | | |
|---|---|---|-----------|
| Lung | + | + | 52 |
| Alveolar/Bronchiolar Carcinoma, Multiple | | X | 1 |
| Carcinoma, Metastatic, Uncertain Primary Site | | | 1 |
| Lymphoma Malignant | | | 2 |
| Nose | + | + | 52 |
| Trachea | + | + | 52 |

SPECIAL SENSES SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | | 0 | 0 | |
|---|------------------|---|---|-----------------|
| | | 7 | 6 | |
| | | 3 | 2 | |
| | | 4 | 7 | |
| | | | | |
| SPRAGUE-DAWLEY RATS
FEMALE | | 0 | 0 | |
| | | 0 | 0 | |
| | | 5 | 5 | |
| | | 7 | 8 | |
| | 460 UG/KG | 9 | 0 | |
| | | | | * TOTALS |
| Eye | | + | + | 52 |
| | | | | |
| Harderian Gland | | + | + | 52 |
| | | | | |
| URINARY SYSTEM | | | | |
| | | | | |
| Kidney | | + | + | 52 |
| Lymphoma Malignant | | | | 1 |
| | | | | |
| Urinary Bladder | | + | + | 52 |
| Sarcoma, Metastatic, Uterus | | | X | 1 |
| | | | | |
| SYSTEMIC LESIONS | | | | |
| | | | | |
| Multiple Organ | | + | + | 52 |
| Adenolipoma | | | | 1 |
| Lymphoma Malignant | | | | 2 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

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P04: NEOPLASMS BY INDIVIDUAL ANIMAL
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Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 4 | 6 | 6 | 7 | 7 | 5 | 7 | 5 | 7 | 7 | 0 | 7 | 6 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 6 | 4 | |
| | 8 | 5 | 0 | 3 | 2 | 1 | 3 | 6 | 3 | 3 | 6 | 3 | 8 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 1 | 6 | 0 | |
| | 7 | 2 | 2 | 4 | 5 | 6 | 3 | 1 | 5 | 5 | 4 | 5 | 0 | 3 | 5 | 4 | 5 | 1 | 3 | 3 | 5 | 4 | 8 | 9 | 7 | |
| SPRAGUE-DAWLEY RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| 1000 UG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | | |

females (cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Ovary | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Cholangiocarcinoma | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Hepatocellular Adenoma | | X | | | X | | X | | | | | | | X | | | | X | | | | | | | |
| Hepatocellular Adenoma, Multiple | | | X | | | | | | X | | | | X | | | | | | | | | | X | | |
| Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 4 | 6 | 6 | 7 | 7 | 5 | 7 | 5 | 7 | 7 | 0 | 7 | 6 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 6 | 4 |
| | 8 | 5 | 0 | 3 | 2 | 1 | 3 | 6 | 3 | 3 | 6 | 3 | 8 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 1 | 6 | 0 |
| | 7 | 2 | 2 | 4 | 5 | 6 | 3 | 1 | 5 | 5 | 4 | 5 | 0 | 3 | 5 | 4 | 5 | 1 | 3 | 3 | 5 | 4 | 8 | 9 | 7 |
| SPRAGUE-DAWLEY RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1000 UG/KG | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |
| Mesentery | | | | | | + | | | | + | | | | | | + | | | | + | + | | | + | |
| Carcinoma, Metastatic, Ovary | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Carcinoma, Metastatic, Uterus | | | | | | | | | | | | | | X | | | | | | | | X | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Ovary | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Carcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | X | | | |
| Acinus, Adenoma | | | | | | | | | | | | | | X | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Ovary | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Ovary | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Tooth | | | | | | | | | | | | | | | | | | | | | | | | | + |

females
(cont...)

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 4 | 6 | 6 | 7 | 7 | 5 | 7 | 5 | 7 | 7 | 0 | 7 | 6 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 6 | 4 |
| | 8 | 5 | 0 | 3 | 2 | 1 | 3 | 6 | 3 | 3 | 6 | 3 | 8 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 1 | 6 | 0 |
| | 7 | 2 | 2 | 4 | 5 | 6 | 3 | 1 | 5 | 5 | 4 | 5 | 0 | 3 | 5 | 4 | 5 | 1 | 3 | 3 | 5 | 4 | 8 | 9 | 7 |
| SPRAGUE-DAWLEY RATS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1000 UG/KG | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

females
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Ovary | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Schwannoma Benign | | | | | | | | | | | | | | | | | | | | | | | | | X |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Ovary | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pheochromocytoma Benign | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Pheochromocytoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bilateral, Pheochromocytoma Benign | | | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | M | + |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pars Distalis, Adenoma | | X | | X | | | X | | | X | | | X | X | | | | | | | X | | | | X |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 4 | 6 | 6 | 7 | 7 | 5 | 7 | 5 | 7 | 7 | 0 | 7 | 6 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 6 | 4 |
| | 8 | 5 | 0 | 3 | 2 | 1 | 3 | 6 | 3 | 3 | 6 | 3 | 8 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 1 | 6 | 0 |
| | 7 | 2 | 2 | 4 | 5 | 6 | 3 | 1 | 5 | 5 | 4 | 5 | 0 | 3 | 5 | 4 | 5 | 1 | 3 | 3 | 5 | 4 | 8 | 9 | 7 |
| SPRAGUE-DAWLEY RATS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1000 UG/KG | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |

females
(cont...)

Bilateral, C-cell, Adenoma
 C-cell, Adenoma X X
 Follicular Cell, Adenoma

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Thecoma Benign | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bilateral, Adamantinoma Malignant, Metastatic, Ovary | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Bilateral, Carcinoma, Metastatic, Ovary | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma | | | | | | | | | | | | X | | | | | | | | | | | | X | X |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | | X | | | | | | |
| Polyp Stromal | | | | X | X | | | | | | | | | | | | | | | | X | | | | X |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
|-------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 4 | 6 | 6 | 7 | 7 | 5 | 7 | 5 | 7 | 7 | 0 | 7 | 6 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 6 | 4 | |
| | | 8 | 5 | 0 | 3 | 2 | 1 | 3 | 6 | 3 | 3 | 6 | 3 | 8 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 1 | 6 | 0 | |
| | | 7 | 2 | 2 | 4 | 5 | 6 | 3 | 1 | 5 | 5 | 4 | 5 | 0 | 3 | 5 | 4 | 5 | 1 | 3 | 3 | 5 | 4 | 8 | 9 | 7 |

| SPRAGUE-DAWLEY RATS FEMALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|----------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |

| 1000 UG/KG | | females (cont...) | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|--|-------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----|
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Bilateral, Polyp Stromal | | | | | | | | | | | | | | | | | | | | | | | | | | X X |
| Vagina | | | | | | | | | | | | | | | | | | | | | | | | | | + |
| Schwannoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | X |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymph Node, Mandibular | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Carcinoma, Metastatic, Ovary | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Carcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Spleen | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Carcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Lymphoma Malignant | | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | X | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 l .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 4 | 6 | 6 | 7 | 7 | 5 | 7 | 5 | 7 | 7 | 0 | 7 | 6 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 6 | 4 |
| | 8 | 5 | 0 | 3 | 2 | 1 | 3 | 6 | 3 | 3 | 6 | 3 | 8 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 1 | 6 | 0 |
| | 7 | 2 | 2 | 4 | 5 | 6 | 3 | 1 | 5 | 5 | 4 | 5 | 0 | 3 | 5 | 4 | 5 | 1 | 3 | 3 | 5 | 4 | 8 | 9 | 7 |
| SPRAGUE-DAWLEY RATS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1000 UG/KG | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |

females
(cont...)

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Ovary | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Carcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Ureter | | | | | | | | | | | | | | | | | | | | | | | | | + |
| Carcinoma, Metastatic, Ovary | | | | | | | | | | | | | | | | | | | | | | | | | X |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
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TDMS No. 20304 - 01
 Test Type: CHRONIC
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 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 4 | 6 | 6 | 7 | 7 | 5 | 7 | 5 | 7 | 7 | 0 | 7 | 6 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 6 | 4 |
| | 8 | 5 | 0 | 3 | 2 | 1 | 3 | 6 | 3 | 3 | 6 | 3 | 8 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 1 | 6 | 0 |
| | 7 | 2 | 2 | 4 | 5 | 6 | 3 | 1 | 5 | 5 | 4 | 5 | 0 | 3 | 5 | 4 | 5 | 1 | 3 | 3 | 5 | 4 | 8 | 9 | 7 |

| SPRAGUE-DAWLEY RATS
FEMALE
1000 UG/KG | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |

females
(cont...)

Urinary Bladder

+ +

SYSTEMIC LESIONS

Multiple Organ

+ +

Lymphoma Malignant

X

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 2 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 6 | 5 | 7 | 4 | 7 | 7 | 7 | 4 | 7 | 7 | 5 | 7 | 7 | 5 | 7 | 7 |
| | 3 | 9 | 3 | 3 | 3 | 4 | 3 | 3 | 0 | 7 | 8 | 3 | 8 | 3 | 3 | 3 | 8 | 3 | 3 | 5 | 3 | 3 | 9 | 3 | 3 |
| | 3 | 8 | 4 | 5 | 4 | 2 | 3 | 3 | 2 | 8 | 6 | 5 | 4 | 5 | 4 | 5 | 0 | 3 | 4 | 1 | 3 | 4 | 3 | 4 | 3 |
| SPRAGUE-DAWLEY RATS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1000 UG/KG | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| ANIMAL ID | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 |
| | 5 | 6 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 |

females (cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tooth | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 7 | 2 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 6 | 5 | 7 | 4 | 7 | 7 | 7 | 4 | 7 | 7 | 5 | 7 | 7 | 5 | 7 | 7 |
| | 3 | 9 | 3 | 3 | 3 | 4 | 3 | 3 | 0 | 7 | 8 | 3 | 8 | 3 | 3 | 3 | 8 | 3 | 3 | 5 | 3 | 3 | 9 | 3 | 3 |
| | 3 | 8 | 4 | 5 | 4 | 2 | 3 | 3 | 2 | 8 | 6 | 5 | 4 | 5 | 4 | 5 | 0 | 3 | 4 | 1 | 3 | 4 | 3 | 4 | 3 |
| SPRAGUE-DAWLEY RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 1000 UG/KG | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 |
| | 5 | 6 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 |

females (cont...)

Heart
 +
 Carcinoma, Metastatic, Ovary
 Lymphoma Malignant
 Schwannoma Benign

ENDOCRINE SYSTEM

Adrenal Cortex
 +
 Carcinoma, Metastatic, Ovary

Adrenal Medulla
 +
 Pheochromocytoma Benign
 Pheochromocytoma Malignant X
 Bilateral, Pheochromocytoma Benign X

Islets, Pancreatic
 +

Parathyroid Gland
 +

Pituitary Gland
 +
 Pars Distalis, Adenoma X X X X X X X X X X

Thyroid Gland
 +

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 2 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 6 | 5 | 7 | 4 | 7 | 7 | 7 | 4 | 7 | 7 | 5 | 7 | 7 | 5 | 7 | 7 | 7 |
| | 3 | 9 | 3 | 3 | 3 | 4 | 3 | 3 | 0 | 7 | 8 | 3 | 8 | 3 | 3 | 3 | 8 | 3 | 3 | 5 | 3 | 3 | 9 | 3 | 3 | 3 |
| | 3 | 8 | 4 | 5 | 4 | 2 | 3 | 3 | 2 | 8 | 6 | 5 | 4 | 5 | 4 | 5 | 0 | 3 | 4 | 1 | 3 | 4 | 3 | 4 | 3 | 3 |
| SPRAGUE-DAWLEY RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 1000 UG/KG | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 |
| | 5 | 6 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 3 |

females (cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|---|--|--|
| Bilateral, C-cell, Adenoma | X | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-cell, Adenoma | | | | X | | | | | | | | | | | | | X | | | | | | | | | |
| Follicular Cell, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | X | | |

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thecoma Benign | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Bilateral, Adamantinoma Malignant, Metastatic, Ovary | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bilateral, Carcinoma, Metastatic, Ovary | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Hemangiosarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyp Stromal | | | | | | | X | | | | | | X | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 2 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 6 | 5 | 7 | 4 | 7 | 7 | 7 | 4 | 7 | 7 | 5 | 7 | 7 | 5 | 7 | 7 |
| | 3 | 9 | 3 | 3 | 3 | 4 | 3 | 3 | 0 | 7 | 8 | 3 | 8 | 3 | 3 | 3 | 8 | 3 | 3 | 5 | 3 | 3 | 9 | 3 | 3 |
| | 3 | 8 | 4 | 5 | 4 | 2 | 3 | 3 | 2 | 8 | 6 | 5 | 4 | 5 | 4 | 5 | 0 | 3 | 4 | 1 | 3 | 4 | 3 | 4 | 3 |
| SPRAGUE-DAWLEY RATS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1000 UG/KG | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| ANIMAL ID | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 |
| | 5 | 6 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 |

females
(cont...)

Squamous Cell Carcinoma
 Bilateral, Polyp Stromal

Vagina
 Schwannoma Malignant

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Ovary | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 2 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 6 | 5 | 7 | 4 | 7 | 7 | 7 | 4 | 7 | 7 | 5 | 7 | 7 | 5 | 7 | 7 |
| | 3 | 9 | 3 | 3 | 3 | 4 | 3 | 3 | 0 | 7 | 8 | 3 | 8 | 3 | 3 | 3 | 8 | 3 | 3 | 5 | 3 | 3 | 9 | 3 | 3 |
| | 3 | 8 | 4 | 5 | 4 | 2 | 3 | 3 | 2 | 8 | 6 | 5 | 4 | 5 | 4 | 5 | 0 | 3 | 4 | 1 | 3 | 4 | 3 | 4 | 3 |
| SPRAGUE-DAWLEY RATS
FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| ANIMAL ID | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 |
| 1000 UG/KG | 5 | 6 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 |

**females
(cont...)**

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma | | | | | | | | | X | | | | | | | | | | | | | | | |
| Carcinoma | | | | | | | | | | | | | | | X | | | | | | | | | |
| Fibroadenoma | X | | X | | | | | | | | | | X | | | | X | | X | | X | | X | |
| Fibroadenoma, Multiple | | | | | | | X | | | | X | | X | | | | | | | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibroma | | | | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Glioma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |
| Meningioma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
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| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|--|
| DAY ON TEST | 0
7
3
3 | 0
2
9
8 | 0
7
3
4 | 0
7
3
5 | 0
7
3
4 | 0
6
4
2 | 0
7
3
3 | 0
7
3
3 | 0
6
0
2 | 0
6
7
8 | 0
5
8
6 | 0
7
3
5 | 0
4
8
4 | 0
7
3
5 | 0
7
3
4 | 0
4
3
5 | 0
7
8
0 | 0
7
3
3 | 0
5
3
1 | 0
7
3
4 | 0
5
3
3 | 0
7
9
4 | 0
7
3
4 | 0
7
3
4 | | |
| SPRAGUE-DAWLEY RATS
FEMALE
1000 UG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | |
| | 5 | 6 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | |
| | females (cont...) | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

SYSTEMIC LESIONS

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | 0 |
|----------------------------|---|-----------------|
| | 4 | 5 |
| | 2 | 3 |
| | 1 | 0 |
| | | |
| SPRAGUE-DAWLEY RATS | 0 | 0 |
| FEMALE | 0 | 0 |
| | 6 | 6 |
| ANIMAL ID | 7 | 7 |
| 1000 UG/KG | 4 | 5 |
| | | * TOTALS |

ALIMENTARY SYSTEM

| | | | |
|----------------------------------|---|---|-----------|
| Esophagus | + | + | 52 |
| Intestine Large, Cecum | + | + | 52 |
| Intestine Large, Colon | + | + | 52 |
| Intestine Large, Rectum | + | + | 52 |
| Carcinoma, Metastatic, Ovary | | | 1 |
| Intestine Small, Duodenum | + | + | 52 |
| Intestine Small, Ileum | + | + | 52 |
| Intestine Small, Jejunum | + | + | 52 |
| Liver | + | + | 52 |
| Carcinoma, Metastatic, Uterus | | | 1 |
| Cholangiocarcinoma | | | 3 |
| Hepatocellular Adenoma | | | 8 |
| Hepatocellular Adenoma, Multiple | | | 4 |
| Lymphoma Malignant | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
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 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | | 0 | 0 | |
|-------------------------------|-----|---|---|-----------------|
| | | 4 | 5 | |
| | | 2 | 3 | |
| | | 1 | 0 | |
| SPRAGUE-DAWLEY RATS | | 0 | 0 | |
| FEMALE | | 0 | 0 | |
| | | 6 | 6 | |
| ANIMAL ID | | 7 | 7 | |
| 1000 UG/KG | | 4 | 5 | |
| | | | | * TOTALS |
| Mesentery | | | | 9 |
| Carcinoma, Metastatic, Ovary | | | | 1 |
| Carcinoma, Metastatic, Uterus | | | | 2 |
| Oral Mucosa | | | | 1 |
| Pancreas | + + | | | 52 |
| Carcinoma, Metastatic, Ovary | | | | 1 |
| Carcinoma, Metastatic, Uterus | | | | 1 |
| Acinus, Adenoma | | | | 3 |
| Salivary Glands | + + | | | 52 |
| Stomach, Forestomach | + + | | | 52 |
| Carcinoma, Metastatic, Ovary | | | | 1 |
| Stomach, Glandular | + + | | | 52 |
| Carcinoma, Metastatic, Ovary | | | | 1 |
| Tooth | | | | 4 |

CARDIOVASCULAR SYSTEM

| | | | | |
|--------------|-----|--|--|-----------|
| Blood Vessel | + + | | | 52 |
|--------------|-----|--|--|-----------|

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | 0 | 4 | 5 | 2 | 3 | 1 | 0 |
|----------------------------|-----------|---|---|---|---|---|---|-----------------|
| <hr/> | | | | | | | | |
| SPRAGUE-DAWLEY RATS | 0 | 0 | 0 | 0 | 6 | 6 | 7 | 7 |
| FEMALE | 0 | 0 | 0 | 0 | 6 | 6 | 7 | 7 |
| 1000 UG/KG | ANIMAL ID | | | | 4 | 5 | | |
| | | | | | | | | * TOTALS |

| | | | | | | | | | |
|------------------------------|---|---|--|--|--|--|--|--|-----------|
| Heart | + | + | | | | | | | 52 |
| Carcinoma, Metastatic, Ovary | | | | | | | | | 1 |
| Lymphoma Malignant | | | | | | | | | 1 |
| Schwannoma Benign | | | | | | | | | 1 |

ENDOCRINE SYSTEM

| | | | | | | | | | |
|------------------------------------|---|---|--|--|--|--|--|--|-----------|
| Adrenal Cortex | + | + | | | | | | | 52 |
| Carcinoma, Metastatic, Ovary | | | | | | | | | 1 |
| Adrenal Medulla | + | + | | | | | | | 52 |
| Pheochromocytoma Benign | | | | | | | | | 1 |
| Pheochromocytoma Malignant | | | | | | | | | 1 |
| Bilateral, Pheochromocytoma Benign | | | | | | | | | 1 |
| Islets, Pancreatic | + | + | | | | | | | 52 |
| Parathyroid Gland | + | + | | | | | | | 50 |
| Pituitary Gland | + | + | | | | | | | 52 |
| Pars Distalis, Adenoma | | | | | | | | | 17 |
| Thyroid Gland | + | + | | | | | | | 52 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
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 BLANK .. Not examined microscopically

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 Test Type: CHRONIC
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P04: NEOPLASMS BY INDIVIDUAL ANIMAL
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 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | 0 | 4 | 5 | 2 | 3 | 1 | 0 |
|----------------------------|-----------|---|---|---|---|---|---|-----------------|
| <hr/> | | | | | | | | |
| SPRAGUE-DAWLEY RATS | 0 | 0 | 0 | 0 | 6 | 6 | 7 | 7 |
| FEMALE | 0 | 0 | 0 | 0 | 6 | 6 | 7 | 7 |
| 1000 UG/KG | 0 | 0 | 0 | 0 | 6 | 6 | 7 | 7 |
| | ANIMAL ID | | | | 4 | 5 | | |
| | | | | | | | | * TOTALS |
| Bilateral, C-cell, Adenoma | | | | | | | | 1 |
| C-cell, Adenoma | | | | | | | | 4 |
| Follicular Cell, Adenoma | | | | | | | | 1 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | |
|---|---|---|--|--|--|--|--|-----------|
| Clitoral Gland | + | + | | | | | | 51 |
| Carcinoma | | | | | | | | 1 |
| Ovary | + | + | | | | | | 52 |
| Carcinoma, Metastatic, Uterus | | | | | | | | 1 |
| Thecoma Benign | | | | | | | | 1 |
| Bilateral, Adamantinoma Malignant,
Metastatic, Ovary | | | | | | | | 1 |
| Bilateral, Carcinoma, Metastatic, Ovary | | | | | | | | 1 |
| Uterus | + | + | | | | | | 52 |
| Carcinoma | | | | | | | | 4 |
| Hemangiosarcoma | | | | | | | | 1 |
| Polyp Stromal | | | | | | | | 6 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

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 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | 0 | |
|-------------------------------|---|---|-----------------|
| | 4 | 5 | |
| | 2 | 3 | |
| | 1 | 0 | |
| <hr/> | | | |
| SPRAGUE-DAWLEY RATS | 0 | 0 | |
| FEMALE | 0 | 0 | |
| | 6 | 6 | |
| ANIMAL ID | 7 | 7 | |
| 1000 UG/KG | 4 | 5 | |
| | | | * TOTALS |
| Squamous Cell Carcinoma | | | 1 |
| Bilateral, Polyp Stromal | | | 2 |
| <hr/> | | | |
| Vagina | | | 1 |
| Schwannoma Malignant | | | 1 |
| <hr/> | | | |
| HEMATOPOIETIC SYSTEM | | | |
| Bone Marrow | + | + | 52 |
| Lymph Node, Mandibular | + | + | 52 |
| Lymphoma Malignant | | | 1 |
| Lymph Node, Mesenteric | + | + | 52 |
| Carcinoma, Metastatic, Ovary | | | 1 |
| Carcinoma, Metastatic, Uterus | | | 1 |
| Spleen | + | + | 52 |
| Carcinoma, Metastatic, Uterus | | | 1 |
| Lymphoma Malignant | | | 1 |
| Thymus | + | + | 50 |
| Lymphoma Malignant | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

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 Lab: BAT

| DAY ON TEST | | | |
|----------------------------|---|---|-----------------|
| | 0 | 0 | |
| | 4 | 5 | |
| | 2 | 3 | |
| | 1 | 0 | |
| | | | |
| SPRAGUE-DAWLEY RATS | 0 | 0 | |
| FEMALE | 0 | 0 | |
| | 6 | 6 | |
| ANIMAL ID | 7 | 7 | |
| 1000 UG/KG | 4 | 5 | |
| | | | * TOTALS |

INTEGUMENTARY SYSTEM

| | | | |
|------------------------|---|---|-----------|
| Mammary Gland | + | + | 52 |
| Adenoma | | | 1 |
| Carcinoma | | | 1 |
| Fibroadenoma | | | 15 |
| Fibroadenoma, Multiple | | | 5 |
| | | | |
| Skin | + | + | 52 |
| Fibroma | | | 1 |

MUSCULOSKELETAL SYSTEM

| | | | |
|-------------------------------|---|---|-----------|
| Bone | + | + | 52 |
| | | | |
| Skeletal Muscle | | | 1 |
| Carcinoma, Metastatic, Uterus | | | 1 |

NERVOUS SYSTEM

| | | | |
|----------------------|---|---|-----------|
| Brain | + | + | 52 |
| Glioma Malignant | | | 1 |
| Meningioma Malignant | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

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 Lab: BAT

| | | | |
|---------------------|---|---|-----------------|
| DAY ON TEST | 0 | 0 | |
| | 4 | 5 | |
| | 2 | 3 | |
| | 1 | 0 | |
| | | | |
| SPRAGUE-DAWLEY RATS | 0 | 0 | |
| FEMALE | 0 | 0 | |
| | 6 | 6 | |
| ANIMAL ID | 7 | 7 | |
| 1000 UG/KG | 4 | 5 | |
| | | | * TOTALS |

RESPIRATORY SYSTEM

| | | | |
|-------------------------------|---|---|-----------|
| Lung | + | + | 52 |
| Carcinoma, Metastatic, Ovary | | | 1 |
| Carcinoma, Metastatic, Uterus | | | 1 |
| | | | |
| Nose | + | + | 52 |
| | | | |
| Trachea | + | + | 52 |

SPECIAL SENSES SYSTEM

| | | | |
|-----------------|---|---|-----------|
| Eye | + | + | 52 |
| | | | |
| Harderian Gland | + | + | 52 |

URINARY SYSTEM

| | | | |
|-------------------------------|---|---|-----------|
| Kidney | + | + | 52 |
| Carcinoma, Metastatic, Uterus | | | 1 |
| | | | |
| Ureter | | | 1 |
| Carcinoma, Metastatic, Ovary | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

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 First Dose M/F: NA / 03/26/04
 Lab: BAT

| | | | |
|---------------------|---|---|-----------------|
| DAY ON TEST | 0 | 0 | |
| | 4 | 5 | |
| | 2 | 3 | |
| | 1 | 0 | |
| | | | |
| SPRAGUE-DAWLEY RATS | 0 | 0 | |
| FEMALE | 0 | 0 | |
| | 6 | 6 | |
| ANIMAL ID | 7 | 7 | |
| 1000 UG/KG | 4 | 5 | |
| | | | * TOTALS |

| | | | |
|-----------------|---|---|-----------|
| Urinary Bladder | + | + | 52 |
|-----------------|---|---|-----------|

SYSTEMIC LESIONS

| | | | |
|--------------------|---|---|-----------|
| Multiple Organ | + | + | 52 |
| Lymphoma Malignant | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
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 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 6 | 7 | 4 | 7 | 6 | 7 | 4 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 1 | 7 | 6 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 |
| | 9 | 3 | 8 | 3 | 7 | 3 | 3 | 3 | 3 | 3 | 7 | 1 | 7 | 3 | 5 | 2 | 2 | 3 | 3 | 1 | 6 | 3 | 3 | 3 | 3 |
| | 7 | 4 | 4 | 3 | 2 | 3 | 3 | 3 | 4 | 5 | 3 | 8 | 2 | 5 | 8 | 7 | 3 | 4 | 5 | 1 | 7 | 5 | 4 | 3 | 4 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SPRAGUE-DAWLEY RATS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 4600 UG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 |
| ANIMAL ID | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

females
(cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | M | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |
| Intestine Small, Duodenum | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | M | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cholangiocarcinoma | X | | | | | | | | | | X | | | | | X | | | | | | | X | |
| Cholangiocarcinoma, Multiple | | X | | X | | X | X | X | X | | | X | X | X | | X | X | | | | X | | X | X |
| Hepatocellular Adenoma | | | | X | | | | | | | | X | X | | | | | | X | | | | | |
| Hepatocellular Adenoma, Multiple | | X | | | | X | | | X | | | | | | | | | | | | X | X | X | X |
| Hepatocellular Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | X |
| Hepatocholangioma | | | | X | | | | | | | | X | | | | | | | | | | | | |

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 + .. Tissue examined microscopically
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M .. Missing tissue
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 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 6 | 7 | 4 | 7 | 6 | 7 | 4 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 1 | 7 | 6 | 7 | 7 | 7 | 5 | 7 | 7 | 7 |
| | 9 | 3 | 8 | 3 | 7 | 3 | 3 | 3 | 3 | 3 | 7 | 1 | 7 | 3 | 5 | 2 | 2 | 3 | 3 | 1 | 6 | 3 | 3 | 3 |
| | 7 | 4 | 4 | 3 | 2 | 3 | 3 | 3 | 4 | 5 | 3 | 8 | 2 | 5 | 8 | 7 | 3 | 4 | 5 | 1 | 7 | 5 | 4 | 3 |
| SPRAGUE-DAWLEY RATS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4600 UG/KG | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

females
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | + + + + + | | | | | | | | | | | | | | | | | | | | | | | |
| Oral Mucosa | + | | | | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell Carcinoma | X | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | M | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | + | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Adenoma | X | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Carcinoma | + | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | | | | | | | | | | | | | | | | | | | | | | | |
| Tooth | + + + + + | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Blood Vessel | + | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | + | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
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| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 6 | 7 | 4 | 7 | 6 | 7 | 4 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 1 | 7 | 6 | 7 | 7 | 5 | 7 | 7 | 7 | 7 |
| | 9 | 3 | 8 | 3 | 7 | 3 | 3 | 3 | 3 | 3 | 7 | 1 | 7 | 3 | 5 | 2 | 2 | 3 | 3 | 1 | 6 | 3 | 3 | 3 |
| | 7 | 4 | 4 | 3 | 2 | 3 | 3 | 3 | 3 | 4 | 5 | 3 | 8 | 2 | 5 | 8 | 7 | 3 | 4 | 5 | 1 | 7 | 5 | 4 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| SPRAGUE-DAWLEY RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 |
| 4600 UG/KG | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

females (cont...)

Lymphoma Malignant

X

ENDOCRINE SYSTEM

Adrenal Cortex
Adenoma

.....
 + + + + M +
 X X

Adrenal Medulla

.....
 + + + + M +

Islets, Pancreatic

.....
 M + + + M +

Parathyroid Gland
Adenoma

.....
 M + + + + + + + + + + + + + + M M + + + + + + + + + +

Pituitary Gland
Pars Distalis, Adenoma

.....
 +
 X

Thyroid Gland
C-cell, Adenoma

.....
 A +

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 6 | 7 | 4 | 7 | 6 | 7 | 4 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 1 | 7 | 6 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | |
| | 9 | 3 | 8 | 3 | 7 | 3 | 3 | 3 | 3 | 3 | 7 | 1 | 7 | 3 | 5 | 2 | 2 | 3 | 3 | 1 | 6 | 3 | 3 | 3 | 3 | |
| | 7 | 4 | 4 | 3 | 2 | 3 | 3 | 3 | 4 | 5 | 3 | 8 | 2 | 5 | 8 | 7 | 3 | 4 | 5 | 1 | 7 | 5 | 4 | 3 | 4 | |
| SPRAGUE-DAWLEY RATS
FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | |
| 4600 UG/KG | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |

**females
(cont...)**

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ovary | M | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Uterus | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma | | | | X | X | | | | | | | | | | | | | | | | | | | | |
| Polyp Stromal | | X | | | | | | | | X | X | | | | | | | X | | | | | | | |
| Schwannoma Malignant | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Bilateral, Polyp Stromal | | | | | | | | | | | | X | | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | + |
| Pancreatic, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | M | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | X | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 6 | 7 | 4 | 7 | 6 | 7 | 4 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 1 | 7 | 6 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | |
| | 9 | 3 | 8 | 3 | 7 | 3 | 3 | 3 | 3 | 3 | 7 | 1 | 7 | 3 | 5 | 2 | 2 | 3 | 3 | 1 | 6 | 3 | 3 | 3 | 3 | |
| | 7 | 4 | 4 | 3 | 2 | 3 | 3 | 3 | 4 | 5 | 3 | 8 | 2 | 5 | 8 | 7 | 3 | 4 | 5 | 1 | 7 | 5 | 4 | 3 | 4 | |
| SPRAGUE-DAWLEY RATS
FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| 4600 UG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 0 | |
| ANIMAL ID | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |

females
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Spleen | M | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | X | | | | | | | | | | | | | | |
| Thymus | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymphoma Malignant | | | | | | | | | | | X | | | | | | | | | | | | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma | | | X | | | X | | | | | | | | | | | | | | | | | | |
| Fibroadenoma | | | | | | | X | | X | | | | | | | | X | X | | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Schwannoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 6 | 7 | 4 | 7 | 6 | 7 | 4 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 1 | 7 | 6 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 |
| | 9 | 3 | 8 | 3 | 7 | 3 | 3 | 3 | 3 | 3 | 7 | 1 | 7 | 3 | 5 | 2 | 2 | 3 | 3 | 1 | 6 | 3 | 3 | 3 | 3 |
| | 7 | 4 | 4 | 3 | 2 | 3 | 3 | 3 | 4 | 5 | 3 | 8 | 2 | 5 | 8 | 7 | 3 | 4 | 5 | 1 | 7 | 5 | 4 | 3 | 4 |
| SPRAGUE-DAWLEY RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 4600 UG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 0 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

females (cont...)

Lymphoma Malignant

Spinal Cord

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cystic Keratinizing Epithelioma | X | | | X | | | | | | X | | | | | | | | X | X | | | | | | |
| Cystic Keratinizing Epithelioma, Multiple | | | | | X | | | | X | X | | | | X | | | | | | | X | | | | |
| Lymphoma Malignant | | | | | | | | | | X | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
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Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| DAY ON TEST | 0
6
9
7 | 0
7
3
4 | 0
4
8
4 | 0
7
3
3 | 0
6
7
2 | 0
7
3
3 | 0
4
3
3 | 0
7
3
4 | 0
7
3
5 | 0
7
3
3 | 0
6
7
8 | 0
7
6
2 | 0
7
3
5 | 0
1
7
8 | 0
7
3
7 | 0
6
2
3 | 0
7
3
4 | 0
7
3
5 | 0
5
2
1 | 0
7
3
7 | 0
7
3
5 | 0
7
3
4 | 0
7
3
3 | 0
7
3
4 | 0
7
3
4 | | | | | | |
| SPRAGUE-DAWLEY RATS
FEMALE | 0
0
7
0
1 | 0
0
7
0
2 | 0
0
7
0
3 | 0
0
7
0
4 | 0
0
7
0
5 | 0
0
7
0
6 | 0
0
7
0
7 | 0
0
7
0
8 | 0
0
7
0
9 | 0
0
7
0
0 | 0
0
7
0
1 | 0
0
7
0
1 | 0
0
7
0
2 | 0
0
7
0
3 | 0
0
7
0
4 | 0
0
7
0
5 | 0
0
7
0
6 | 0
0
7
0
7 | 0
0
7
0
8 | 0
0
7
0
9 | 0
0
7
0
0 | 0
0
7
0
1 | 0
0
7
0
2 | 0
0
7
0
3 | 0
0
7
0
4 | 0
0
7
0
5 | 0
0
7
0
6 | 0
0
7
0
7 | 0
0
7
0
8 | 0
0
7
0
9 | 0
0
7
0
0 |
| 4600 UG/KG
ANIMAL ID | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| Urinary Bladder | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SYSTEMIC LESIONS | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ
Lymphoma Malignant | +
X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

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 Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 4 | 6 | 7 | 7 | 6 | 6 | 7 | 0 | 0 | 7 | 0 | 7 | 6 | 7 | 6 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 4 | 7 |
| | | 6 | 5 | 9 | 3 | 3 | 7 | 2 | 3 | 5 | 7 | 3 | 7 | 3 | 5 | 3 | 4 | 8 | 3 | 1 | 3 | 3 | 3 | 1 | 8 | 3 |
| | | 5 | 9 | 2 | 3 | 3 | 7 | 0 | 4 | 4 | 1 | 4 | 5 | 3 | 2 | 3 | 2 | 7 | 5 | 7 | 3 | 4 | 5 | 1 | 4 | 4 |
| SPRAGUE-DAWLEY RATS | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FEMALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | ANIMAL ID | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 4600 UG/KG | | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 |
| | | 5 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 3 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 |

females
(cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | M | + | M | + | + | + | M | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | M | + | M | + | + | + | M | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | M | + | M | + | + | + | M | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | M | + | M | + | + | + | M | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | M | + | M | + | + | + | M | + | + | + | + | + | + | + | + | + |
| Cholangiocarcinoma | | | | | | | | | | | | | | X | | | | | | X | | | | | |
| Cholangiocarcinoma, Multiple | | | X | X | X | X | X | X | | X | | X | | X | X | | X | X | | X | | X | X | | X |
| Hepatocellular Adenoma | | | | | X | | | | | | | | X | | X | | X | | | | X | X | | | |
| Hepatocellular Adenoma, Multiple | | | X | X | | | | X | | X | X | | | | | | X | | | X | | | | | |
| Hepatocellular Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocholangioma | | | | | | | | | | | | | | | | | X | | | X | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
Time Report Requested: 12:05:16
First Dose M/F: NA / 03/26/04
Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 4 | 6 | 7 | 7 | 6 | 6 | 7 | 0 | 0 | 7 | 0 | 7 | 6 | 7 | 6 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 4 | 7 |
| | 6 | 5 | 9 | 3 | 3 | 7 | 2 | 3 | 5 | 7 | 3 | 7 | 3 | 5 | 3 | 4 | 8 | 3 | 1 | 3 | 3 | 3 | 1 | 8 | 3 |
| | 5 | 9 | 2 | 3 | 3 | 7 | 0 | 4 | 4 | 1 | 4 | 5 | 3 | 2 | 3 | 2 | 7 | 5 | 7 | 3 | 4 | 5 | 1 | 4 | 4 |
| SPRAGUE-DAWLEY RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 4600 UG/KG | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 |
| | 5 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 3 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 |

females (cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Mesentery | | + | | | | + | | | | | | | | + | | | | | | | | | | | | |
| Oral Mucosa | | | | | | + | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Pancreas | | + | + | + | + | + | + | + | + | + | M | + | M | + | + | + | M | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Acinus, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Carcinoma | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| Salivary Glands | | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach | | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Glandular | | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Tooth | | | | | | + | | | | | | | | | | | | | | | | | | | | + |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart | | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 4 | 6 | 7 | 7 | 6 | 6 | 7 | 0 | 0 | 7 | 0 | 7 | 6 | 7 | 6 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 4 | 7 |
| | 6 | 5 | 9 | 3 | 3 | 7 | 2 | 3 | 5 | 7 | 3 | 7 | 3 | 5 | 3 | 4 | 8 | 3 | 1 | 3 | 3 | 3 | 1 | 8 | 3 |
| | 5 | 9 | 2 | 3 | 3 | 7 | 0 | 4 | 4 | 1 | 4 | 5 | 3 | 2 | 3 | 2 | 7 | 5 | 7 | 3 | 4 | 5 | 1 | 4 | 4 |
| SPRAGUE-DAWLEY RATS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4600 UG/KG | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| ANIMAL ID | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 |
| | 5 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 3 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 |

**females
(cont...)**

Lymphoma Malignant

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Adenoma | | | X | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | M | + | M | + | + | + | M | + | + | + | + | + | + | + | + | + | |
| Parathyroid Gland | M | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Adenoma | | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pars Distalis, Adenoma | | | | | | | | X | | | X | | | | | | | | | | | | X | | | |
| Thyroid Gland | M | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| C-cell, Adenoma | | | | X | | | X | | | | | | | | | X | X | | | | | | | | X | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 4 | 6 | 7 | 7 | 6 | 6 | 7 | 0 | 0 | 7 | 0 | 7 | 6 | 7 | 6 | 6 | 7 | 6 | 7 | 7 | 7 | 4 | 7 |
| | 6 | 5 | 9 | 3 | 3 | 7 | 2 | 3 | 5 | 7 | 3 | 7 | 3 | 5 | 3 | 4 | 8 | 3 | 1 | 3 | 3 | 3 | 1 | 8 |
| | 5 | 9 | 2 | 3 | 3 | 7 | 0 | 4 | 4 | 1 | 4 | 5 | 3 | 2 | 3 | 2 | 7 | 5 | 7 | 3 | 4 | 5 | 1 | 4 |

| SPRAGUE-DAWLEY RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 4600 UG/KG | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 |
| | 5 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 3 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | 6 | 7 |

females (cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | M | + | + | + | + | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + |
| Ovary | + | + | + | + | + | + | + | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + |
| Uterus | + | + | + | + | + | + | + | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | X |
| Polyp Stromal | | | | | | | | | | | | | | | | | | | | | | | | X |
| Schwannoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |
| Bilateral, Polyp Stromal | | | | | | | | | | | | | | | | | | | | | | | | X |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | X |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | M | + | M | + | + | + | M | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | X |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
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TDMS No. 20304 - 01
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P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

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 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 4 | 6 | 7 | 7 | 6 | 6 | 7 | 0 | 0 | 7 | 0 | 7 | 6 | 7 | 6 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 4 | 7 |
| | 6 | 5 | 9 | 3 | 3 | 7 | 2 | 3 | 5 | 7 | 3 | 7 | 3 | 5 | 3 | 4 | 8 | 3 | 1 | 3 | 3 | 3 | 1 | 8 | 3 |
| | 5 | 9 | 2 | 3 | 3 | 7 | 0 | 4 | 4 | 1 | 4 | 5 | 3 | 2 | 3 | 2 | 7 | 5 | 7 | 3 | 4 | 5 | 1 | 4 | 4 |
| SPRAGUE-DAWLEY RATS
FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4600 UG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 |
| | 5 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 3 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

females (cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Spleen | + | + | + | + | + | + | + | + | + | M | + | M | + | + | + | M | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Thymus | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | M | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibroadenoma | | | | X | | | | | X | | | | | X | | | | | X | | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Schwannoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | X |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

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First Dose M/F: NA / 03/26/04

Lab: BAT

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 4 | 6 | 7 | 7 | 6 | 6 | 7 | 0 | 0 | 7 | 0 | 7 | 6 | 7 | 6 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 4 | 7 |
| | 6 | 5 | 9 | 3 | 3 | 7 | 2 | 3 | 5 | 7 | 3 | 7 | 3 | 5 | 3 | 4 | 8 | 3 | 1 | 3 | 3 | 3 | 1 | 8 | 3 |
| | 5 | 9 | 2 | 3 | 3 | 7 | 0 | 4 | 4 | 1 | 4 | 5 | 3 | 2 | 3 | 2 | 7 | 5 | 7 | 3 | 4 | 5 | 1 | 4 | 4 |

**SPRAGUE-DAWLEY RATS
 FEMALE**

4600 UG/KG

ANIMAL ID

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 |
| 5 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 3 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 8 |

**females
 (cont...)**

Lymphoma Malignant

X

Spinal Cord

+

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + |
| Cystic Keratinizing Epithelioma | | | X | | | | | | | X | | | | | X | | | X | X | | | X | | | |
| Cystic Keratinizing Epithelioma, Multiple | | | | X | | | | | | | | | | | | | | | | | | | X | | X |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 4 | 6 | 7 | 7 | 6 | 6 | 7 | 0 | 0 | 7 | 0 | 7 | 6 | 7 | 6 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 4 | 7 |
| | 6 | 5 | 9 | 3 | 3 | 7 | 2 | 3 | 5 | 7 | 3 | 7 | 3 | 5 | 3 | 4 | 8 | 3 | 1 | 3 | 3 | 3 | 1 | 8 | 3 |
| | 5 | 9 | 2 | 3 | 3 | 7 | 0 | 4 | 4 | 1 | 4 | 5 | 3 | 2 | 3 | 2 | 7 | 5 | 7 | 3 | 4 | 5 | 1 | 4 | 4 |
| SPRAGUE-DAWLEY RATS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 4600 UG/KG | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 |
| | 5 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 3 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 | 9 | 0 | 6 | 7 | 8 |

females
(cont...)

Urinary Bladder

+ + + + + + + + + M + M + + + + + + + + + + + +

SYSTEMIC LESIONS

Multiple Organ
Lymphoma Malignant

+ X

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| | | | |
|---------------------|---|---|-----------------|
| DAY ON TEST | 0 | 0 | |
| | 6 | 7 | |
| | 9 | 3 | |
| | 9 | 3 | |
| | | | |
| SPRAGUE-DAWLEY RATS | 0 | 0 | |
| FEMALE | 0 | 0 | |
| | 7 | 7 | |
| ANIMAL ID | 7 | 8 | |
| 4600 UG/KG | 9 | 0 | |
| | | | * TOTALS |

ALIMENTARY SYSTEM

| | | | |
|----------------------------------|---|---|-----------|
| Esophagus | + | + | 52 |
| Intestine Large, Cecum | + | + | 48 |
| Intestine Large, Colon | + | + | 48 |
| Intestine Large, Rectum | + | + | 50 |
| Lymphoma Malignant | | | 1 |
| Intestine Small, Duodenum | + | + | 48 |
| Intestine Small, Ileum | + | + | 47 |
| Intestine Small, Jejunum | + | + | 48 |
| Liver | + | + | 49 |
| Cholangiocarcinoma | | | 6 |
| Cholangiocarcinoma, Multiple | X | X | 30 |
| Hepatocellular Adenoma | | | 10 |
| Hepatocellular Adenoma, Multiple | | | 14 |
| Hepatocellular Carcinoma | | | 1 |
| Hepatocholangioma | | | 4 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
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| DAY ON TEST | 0 | 0 | |
|----------------------------|---|---|-----------------|
| | 6 | 7 | |
| | 9 | 3 | |
| | 9 | 3 | |
| <hr/> | | | |
| SPRAGUE-DAWLEY RATS | 0 | 0 | |
| FEMALE | 0 | 0 | |
| | 7 | 7 | |
| ANIMAL ID | 7 | 8 | |
| 4600 UG/KG | 9 | 0 | |
| | | | * TOTALS |
| Lymphoma Malignant | | | 2 |
| Mesentery | + | | 9 |
| Oral Mucosa | | | 3 |
| Squamous Cell Carcinoma | | | 2 |
| Pancreas | + | + | 47 |
| Lymphoma Malignant | | | 1 |
| Acinus, Adenoma | | | 1 |
| Acinus, Carcinoma | | | 1 |
| Salivary Glands | + | + | 51 |
| Stomach, Forestomach | + | + | 51 |
| Stomach, Glandular | + | + | 51 |
| Tooth | | | 7 |

CARDIOVASCULAR SYSTEM

| | | | |
|--------------|---|---|-----------|
| Blood Vessel | + | + | 51 |
| Heart | + | + | 50 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
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 Lab: BAT

| DAY ON TEST | 0 | 0 | |
|----------------------------|---|---|-----------------|
| | 6 | 7 | |
| | 9 | 3 | |
| | 9 | 3 | |
| | | | |
| SPRAGUE-DAWLEY RATS | 0 | 0 | |
| FEMALE | 0 | 0 | |
| | 7 | 7 | |
| ANIMAL ID | 7 | 8 | |
| 4600 UG/KG | 9 | 0 | |
| | | | * TOTALS |

Lymphoma Malignant

1

ENDOCRINE SYSTEM

| | | | |
|------------------------|---|---|-----------|
| Adrenal Cortex | + | + | 49 |
| Adenoma | | | 4 |
| | | | |
| Adrenal Medulla | + | + | 49 |
| | | | |
| Islets, Pancreatic | + | + | 47 |
| | | | |
| Parathyroid Gland | + | + | 47 |
| Adenoma | | | 1 |
| | | | |
| Pituitary Gland | + | + | 52 |
| Pars Distalis, Adenoma | | | 4 |
| | | | |
| Thyroid Gland | + | + | 49 |
| C-cell, Adenoma | | X | 6 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

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| DAY ON TEST | 0 | 0 | |
|----------------------------|---|---|-----------------|
| | 6 | 7 | |
| | 9 | 3 | |
| | 9 | 3 | |
| <hr/> | | | |
| SPRAGUE-DAWLEY RATS | 0 | 0 | |
| FEMALE | 0 | 0 | |
| | 7 | 7 | |
| ANIMAL ID | 7 | 8 | |
| 4600 UG/KG | 9 | 0 | |
| | | | * TOTALS |

| | | | |
|--------------------------|---|---|-----------|
| Clitoral Gland | + | + | 49 |
| Ovary | + | + | 48 |
| Uterus | + | + | 49 |
| Carcinoma | | | 3 |
| Polyp Stromal | | | 5 |
| Schwannoma Malignant | | | 1 |
| Bilateral, Polyp Stromal | | | 1 |

HEMATOPOIETIC SYSTEM

| | | | |
|--------------------------------|---|---|-----------|
| Bone Marrow | + | + | 52 |
| Lymphoma Malignant | | | 1 |
| Lymph Node | + | | 2 |
| Pancreatic, Lymphoma Malignant | X | | 1 |
| Lymph Node, Mandibular | + | + | 51 |
| Lymphoma Malignant | | | 2 |
| Lymph Node, Mesenteric | + | + | 47 |
| Lymphoma Malignant | | | 2 |

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| DAY ON TEST | 0 | 0 | |
|----------------------------|---|---|-----------------|
| | 6 | 7 | |
| | 9 | 3 | |
| | 9 | 3 | |
| | | | |
| SPRAGUE-DAWLEY RATS | 0 | 0 | |
| FEMALE | 0 | 0 | |
| | 7 | 7 | |
| ANIMAL ID | 7 | 8 | |
| 4600 UG/KG | 9 | 0 | |
| | | | * TOTALS |

| | | | |
|--------------------|---|---|-----------|
| Spleen | + | + | 47 |
| Lymphoma Malignant | | | 2 |
| Thymus | + | + | 49 |
| Lymphoma Malignant | | | 1 |

INTEGUMENTARY SYSTEM

| | | | |
|----------------------|---|---|-----------|
| Mammary Gland | + | + | 50 |
| Carcinoma | | | 2 |
| Fibroadenoma | | | 8 |
| Skin | + | + | 51 |
| Schwannoma Malignant | | | 1 |

MUSCULOSKELETAL SYSTEM

| | | | |
|------|---|---|-----------|
| Bone | + | + | 52 |
|------|---|---|-----------|

NERVOUS SYSTEM

| | | | |
|-------|---|---|-----------|
| Brain | + | + | 52 |
|-------|---|---|-----------|

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
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| DAY ON TEST | 0 | 0 | |
|----------------------------|---|---|-----------------|
| | 6 | 7 | |
| | 9 | 3 | |
| | 9 | 3 | |
| | | | |
| SPRAGUE-DAWLEY RATS | 0 | 0 | |
| FEMALE | 0 | 0 | |
| | 7 | 7 | |
| ANIMAL ID | 7 | 8 | |
| 4600 UG/KG | 9 | 0 | |
| | | | * TOTALS |

| | | | |
|--------------------|--|--|----------|
| Lymphoma Malignant | | | 1 |
| | | | |
| Spinal Cord | | | 1 |

RESPIRATORY SYSTEM

| | | | |
|---|---|---|-----------|
| Lung | + | + | 50 |
| Cystic Keratinizing Epithelioma | | X | 12 |
| Cystic Keratinizing Epithelioma, Multiple | | | 8 |
| Lymphoma Malignant | | | 1 |
| | | | |
| Nose | + | + | 52 |
| | | | |
| Trachea | + | + | 52 |

SPECIAL SENSES SYSTEM

| | | | |
|-----------------|---|---|-----------|
| Eye | + | + | 52 |
| | | | |
| Harderian Gland | + | + | 52 |

URINARY SYSTEM

| | | | |
|--------|---|---|-----------|
| Kidney | + | + | 50 |
|--------|---|---|-----------|

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| DAY ON TEST | | 0 | 0 | |
|---|-------------------|---|---|-----------------|
| | | 6 | 7 | |
| | | 9 | 3 | |
| | | 9 | 3 | |
| | | | | |
| SPRAGUE-DAWLEY RATS
FEMALE | | 0 | 0 | |
| | | 0 | 0 | |
| | | 7 | 7 | |
| | ANIMAL ID | 7 | 8 | |
| | 4600 UG/KG | 9 | 0 | |
| | | | | * TOTALS |

| | | | | |
|-----------------|---|---|--|-----------|
| Urinary Bladder | + | + | | 50 |
|-----------------|---|---|--|-----------|

SYSTEMIC LESIONS

| | | | | |
|--------------------|---|---|--|-----------|
| Multiple Organ | + | + | | 52 |
| Lymphoma Malignant | X | | | 3 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
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 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------------------|
| | 6 | 7 | 7 | 6 | 3 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 6 | 7 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | | |
| | 7 | 3 | 3 | 5 | 0 | 3 | 3 | 3 | 3 | 3 | 1 | 1 | 9 | 3 | 3 | 7 | 4 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 8 | | |
| | 1 | 4 | 5 | 7 | 2 | 3 | 4 | 3 | 5 | 3 | 8 | 3 | 4 | 3 | 0 | 1 | 5 | 3 | 4 | 5 | 5 | 4 | 3 | 3 | 9 | | |
| SPRAGUE-DAWLEY RATS FEMALE | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4600 UG/KG STOP | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | | females (cont...) |
| Mesentery | + | | | + | | | | + | | | | | + | + | | | | | + | + | | | | | | | |
| Carcinoma, Metastatic, Uterus | X | | | X | | | | | | | | | X | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Carcinoma, Metastatic, Uterus | X | | X | X | | | | | | | | | X | | | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Carcinoma, Metastatic, Uterus | | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tooth | | | | | | + | | | | | | | | | | | + | | | | | | + | | + | + | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 6 | 7 | 7 | 6 | 3 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 6 | 7 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 |
| | 7 | 3 | 3 | 5 | 0 | 3 | 3 | 3 | 3 | 3 | 1 | 1 | 9 | 3 | 3 | 7 | 4 | 3 | 3 | 2 | 3 | 3 | 3 | 8 |
| | 1 | 4 | 5 | 7 | 2 | 3 | 4 | 3 | 5 | 3 | 8 | 3 | 4 | 3 | 0 | 1 | 5 | 3 | 4 | 5 | 5 | 4 | 3 | 9 |
| SPRAGUE-DAWLEY RATS
FEMALE
4600 UG/KG STOP | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |

females
(cont...)

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Carcinoma, Metastatic, Uterus | X | | | | | | | | | | | | X | | | | | | | | | | | | |
| Granulosa Cell Tumor Malignant, Metastatic, Ovary | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pheochromocytoma Benign | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pars Distalis, Adenoma | | | X | | | | | | | | | | | X | | | | | | | | X | | X | X |
| Pars Distalis, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| C-cell, Adenoma | | | | | | | | | X | X | | | | | | | | | | | | | | | X |
| Follicular Cell, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | X |

GENERAL BODY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
x .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

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| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 6 | 7 | 7 | 6 | 3 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 6 | 7 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | |
| | 7 | 3 | 3 | 5 | 0 | 3 | 3 | 3 | 3 | 3 | 1 | 1 | 9 | 3 | 3 | 7 | 4 | 3 | 3 | 2 | 3 | 3 | 3 | 8 | |
| | 1 | 4 | 5 | 7 | 2 | 3 | 4 | 3 | 5 | 3 | 8 | 3 | 4 | 3 | 0 | 1 | 5 | 3 | 4 | 5 | 5 | 4 | 3 | 9 | |
| SPRAGUE-DAWLEY RATS
FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | |
| 4600 UG/KG STOP | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

females
(cont...)

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Uterus | X | | X | X | | | | | | | | | | | | | | | | | | | | |
| Granulosa Cell Tumor Malignant | | | | | | | | | | | | | | | | | | | | | | | | X |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma | X | | X | X | | | | | | | X | X | | | | X | | | | | | | | |
| Polyp Stromal | | | | | | X | | | | | | | | | | | | | | | | X | X | |
| Schwannoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | |
| Bilateral, Polyp Stromal | | | | | | | | | | | | | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal, Carcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

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 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 6 | 7 | 7 | 6 | 3 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 6 | 7 | 6 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 |
| | 7 | 3 | 3 | 5 | 0 | 3 | 3 | 3 | 3 | 3 | 1 | 1 | 9 | 3 | 3 | 7 | 4 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 8 |
| | 1 | 4 | 5 | 7 | 2 | 3 | 4 | 3 | 5 | 3 | 8 | 3 | 4 | 3 | 0 | 1 | 5 | 3 | 4 | 5 | 5 | 4 | 3 | 3 | 9 |
| SPRAGUE-DAWLEY RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 4600 UG/KG STOP | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

females (cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Uterus | X | | | X | | | | | | | X | | | | | | | | | | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | X | | | | |
| Fibroadenoma | | | | | X | X | | | X | X | X | | | X | | | | | X | | | | | | X |
| Fibroadenoma, Multiple | | | | | | | | X | | | | | X | | X | | | | | X | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibroma | | | | | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | + |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
TEF evaluation (PCB 118)
CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
Time Report Requested: 12:05:16
First Dose M/F: NA / 03/26/04
Lab: BAT

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|---------------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 6 | 7 | 7 | 6 | 3 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 6 | 7 | 6 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | |
| | | 7 | 3 | 3 | 5 | 0 | 3 | 3 | 3 | 3 | 3 | 1 | 1 | 9 | 3 | 3 | 7 | 4 | 3 | 3 | 2 | 3 | 3 | 3 | 8 | |
| | | 1 | 4 | 5 | 7 | 2 | 3 | 4 | 3 | 5 | 3 | 8 | 3 | 4 | 3 | 0 | 1 | 5 | 3 | 4 | 5 | 5 | 4 | 3 | 9 | |
| SPRAGUE-DAWLEY RATS
FEMALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | |
| 4600 UG/KG STOP | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

females
(cont...)

Carcinoma, Metastatic, Uterus
Granulosa Cell Tumor Malignant,
Metastatic, Ovary

X

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Carcinoma, Metastatic, Pituitary Gland | | | | | | | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Thyroid Gland | | | | | | | | | | | | | | | X | | | | | | | | | | |
| Carcinoma, Metastatic, Uterus | | | | X | X | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
x .. Lesion present
l .. Insufficient tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------------|---|---|
| | 6 | 7 | 7 | 6 | 3 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 6 | 7 | 6 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 |
| | 7 | 3 | 3 | 5 | 0 | 3 | 3 | 3 | 3 | 3 | 1 | 1 | 9 | 3 | 3 | 7 | 4 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 8 | |
| | 1 | 4 | 5 | 7 | 2 | 3 | 4 | 3 | 5 | 3 | 8 | 3 | 4 | 3 | 0 | 1 | 5 | 3 | 4 | 5 | 5 | 4 | 3 | 3 | 3 | 9 | | | |
| SPRAGUE-DAWLEY RATS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 4600 UG/KG STOP | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | | females (cont...) | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Uterus | | | | | X | | | | | | | | | | | | | | | | | | | | | | | |
| Granulosa Cell Tumor Malignant, Metastatic, Ovary | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Renal Tubule, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ureter | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

SYSTEMIC LESIONS

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|
| | 1 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 6 | 5 | 5 | 5 | 5 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 5 | 7 | 2 | |
| | 6 | 4 | 3 | 3 | 3 | 3 | 1 | 8 | 3 | 7 | 9 | 7 | 8 | 4 | 6 | 3 | 3 | 1 | 3 | 3 | 3 | 3 | 6 | 3 | 0 | |
| | 0 | 2 | 4 | 4 | 3 | 3 | 3 | 0 | 4 | 2 | 6 | 5 | 2 | 5 | 7 | 5 | 3 | 7 | 3 | 3 | 5 | 4 | 7 | 4 | 7 | |
| SPRAGUE-DAWLEY RATS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | |
| 4600 UG/KG STOP | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Large, Colon | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Large, Rectum | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Duodenum | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Carcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Intestine Small, Ileum | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Carcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Intestine Small, Jejunum | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Liver | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Carcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Cholangiocarcinoma | | | | X | | X | | | | X | | | X | X | | X | | X | | | | | | | 12 |
| Cholangiocarcinoma, Multiple | | X | | | | X | | | X | X | | | | | | X | | X | | | | X | | | 17 |
| Hepatocellular Adenoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 1 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 6 | 5 | 5 | 5 | 5 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 5 | 7 | 2 | | |
| | 6 | 4 | 3 | 3 | 3 | 3 | 1 | 8 | 3 | 7 | 9 | 7 | 8 | 4 | 6 | 3 | 3 | 1 | 3 | 3 | 3 | 3 | 6 | 3 | 0 | | |
| | 0 | 2 | 4 | 4 | 3 | 3 | 3 | 0 | 4 | 2 | 6 | 5 | 2 | 5 | 7 | 5 | 3 | 7 | 3 | 3 | 5 | 4 | 7 | 4 | 7 | | |
| SPRAGUE-DAWLEY RATS
FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4600 UG/KG STOP | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | * TOTALS |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Carcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Granulosa Cell Tumor Malignant,
Metastatic, Ovary | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Adrenal Medulla | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Pheochromocytoma Benign | | | | | | | | | | | | | | | | | | | | X | | | | | | | 2 |
| Islets, Pancreatic | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Pars Distalis, Adenoma | | | X | X | | X | | | | X | | | | | | | | X | X | | X | | | | | | 12 |
| Pars Distalis, Carcinoma | | | | | | | | | | | | | | | X | | | | | | | | | | | | 1 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| C-cell, Adenoma | | | | | X | | | | X | | | | | | | | | | | | | | | | | | 5 |
| Follicular Cell, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

GENERAL BODY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | 0 | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| | 1 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 6 | 5 | 5 | 5 | 5 | 7 | 7 | 6 | 7 | 7 | 7 | 5 | 7 | 2 | | |
| ANIMAL ID | 0 | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | | |
| 4600 UG/KG STOP | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | | |
| Lymph Node, Mandibular | 6 | 4 | 3 | 3 | 3 | 3 | 1 | 8 | 3 | 7 | 9 | 7 | 8 | 4 | 6 | 3 | 3 | 1 | 3 | 3 | 3 | 3 | 6 | 3 | 0 | |
| Lymph Node, Mesenteric | 0 | 2 | 4 | 4 | 3 | 3 | 3 | 0 | 4 | 2 | 6 | 5 | 2 | 5 | 7 | 5 | 3 | 7 | 3 | 3 | 5 | 4 | 7 | 4 | 7 | |
| Spleen | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Carcinoma, Metastatic, Uterus | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | |
| Thymus | 2 | 2 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|
| Mammary Gland | + | | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Carcinoma | X | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Fibroadenoma | X | | | | | | | | | | | | | | | | | | | | | | | | | 12 |
| Fibroadenoma, Multiple | X | | | | | | | | | | | | | | | | | | | | | | | | | 5 |
| Skin | + | | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Fibroma | X | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|
| Bone | + | | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Skeletal Muscle | + | | | | | | | | | | | | | | | | | | | | | | | | | 2 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

TEF evaluation (PCB 118)

CAS Number: 31508-00-6

Date Report Requested: 06/26/2008

Time Report Requested: 12:05:16

First Dose M/F: NA / 03/26/04

Lab: BAT

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-----------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|
| | | 1 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 6 | 5 | 5 | 5 | 5 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 5 | 7 | 2 |
| | | 6 | 4 | 3 | 3 | 3 | 3 | 1 | 8 | 3 | 7 | 9 | 7 | 8 | 4 | 6 | 3 | 3 | 1 | 3 | 3 | 3 | 3 | 6 | 3 | 0 |
| | | 0 | 2 | 4 | 4 | 3 | 3 | 3 | 0 | 4 | 2 | 6 | 5 | 2 | 5 | 7 | 5 | 3 | 7 | 3 | 3 | 5 | 4 | 7 | 4 | 7 |
| SPRAGUE-DAWLEY RATS FEMALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 4600 UG/KG STOP | | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
| | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |

| | | |
|---|---|----------|
| Carcinoma, Metastatic, Uterus | X | 1 |
| Granulosa Cell Tumor Malignant, Metastatic, Ovary | | 1 |

NERVOUS SYSTEM

| | | |
|--|---|-----------|
| Brain | + | 50 |
| Carcinoma, Metastatic, Pituitary Gland | X | 1 |

RESPIRATORY SYSTEM

| | | |
|--------------------------------------|---|-----------|
| Lung | + | 50 |
| Carcinoma, Metastatic, Thyroid Gland | | 1 |
| Carcinoma, Metastatic, Uterus | | 2 |
| Nose | + | 50 |
| Trachea | + | 50 |

SPECIAL SENSES SYSTEM

| | | |
|-----------------|---|-----------|
| Eye | + | 50 |
| Harderian Gland | + | 50 |

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically

TDMS No. 20304 - 01
 Test Type: CHRONIC
 Route: GAVAGE
 Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 TEF evaluation (PCB 118)
 CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
 Time Report Requested: 12:05:16
 First Dose M/F: NA / 03/26/04
 Lab: BAT

| DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---------------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|
| | 01 | 06 | 07 | 07 | 07 | 07 | 07 | 07 | 06 | 07 | 06 | 06 | 05 | 05 | 05 | 05 | 07 | 07 | 06 | 07 | 07 | 07 | 05 | 07 | |
| | 6 | 4 | 3 | 3 | 3 | 3 | 1 | 8 | 3 | 7 | 9 | 7 | 8 | 4 | 6 | 3 | 3 | 1 | 3 | 3 | 3 | 3 | 6 | 3 | 0 |
| | 0 | 2 | 4 | 4 | 3 | 3 | 3 | 0 | 4 | 2 | 6 | 5 | 2 | 5 | 7 | 5 | 3 | 7 | 3 | 3 | 5 | 4 | 7 | 4 | 7 |
| SPRAGUE-DAWLEY RATS
FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| 4600 UG/KG STOP | | | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Kidney | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Carcinoma, Metastatic, Uterus | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Granulosa Cell Tumor Malignant, Metastatic, Ovary | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Renal Tubule, Carcinoma | | | | | X | | | | | | | | | | | | | | | | | | | | | 1 |
| Ureter | | + | | | | + | | | | | | | | | | | | | | | | | | | | 2 |
| Urinary Bladder | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Carcinoma, Metastatic, Uterus | | X | | | | | | | | | | | | | | | | | | | | | | | | 1 |

SYSTEMIC LESIONS

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|

*** END OF REPORT ***

* .. Total animals with tissue examined microscopically; Total animals with tumor
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically